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## DSC-TF1

### User Guide

Use this manual if you encounter any problems, or have any questions about the camera.

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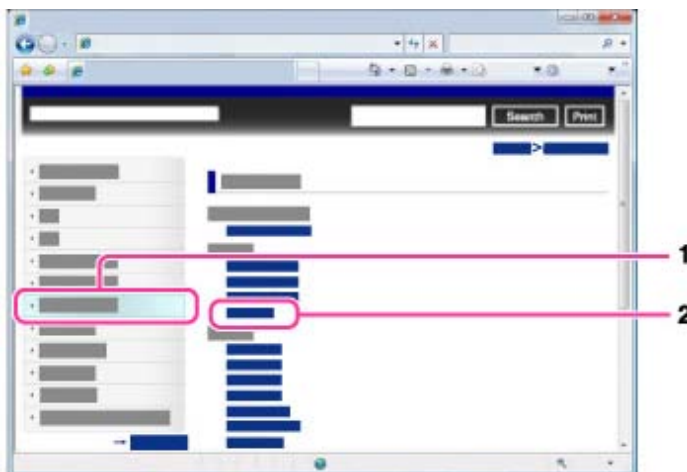
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### Selecting a topic to display

The following illustrations take Internet Explorer 7 as an example.

1. Click a title in the side bar on the left of the browser window.  
The title's topic list appears in the right pane.
2. Click a topic title in the list.



Descriptions appear in the right pane.

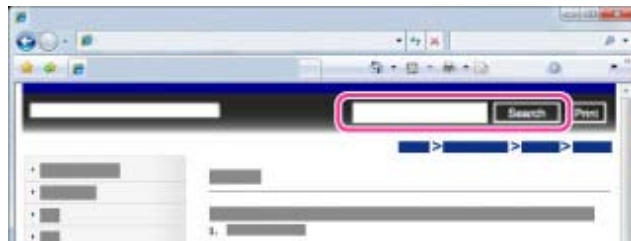


### Changing the font size

Change the font size by changing the setting of your web browser. For how to change the font size setting, refer to the Help of your web browser.

### Searching a topic by keyword

Enter the keyword in the search window, then click the [Search] button.



### Returning to a previous page

Use the browser's back button to return to a previously viewed page, or use the breadcrumb trail navigation (A) to display the desired page.



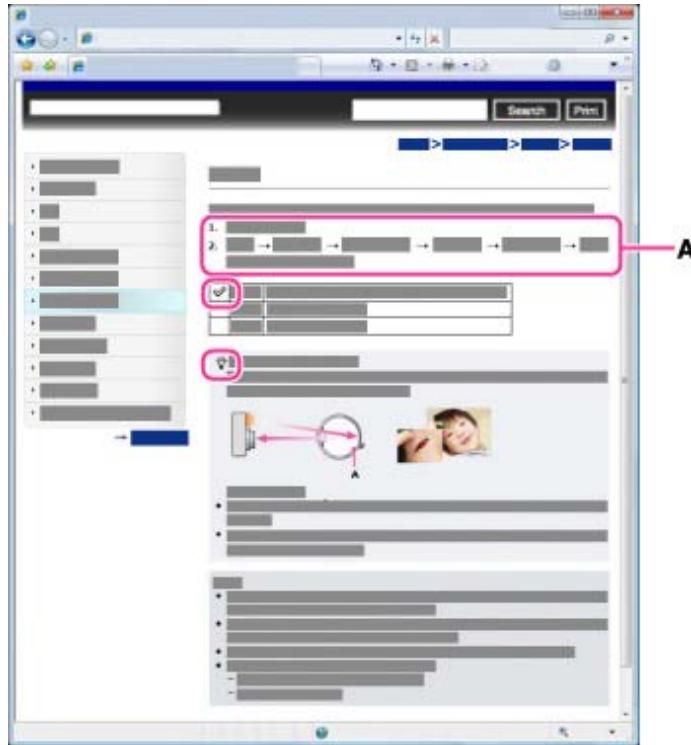
### Printing out a page

Click the [Print] button to print out the page you are viewing.



## ■ Marks and notations used in this User Guide

In this User Guide, the sequence of operations is shown by arrows (→) (A).  
Operate the camera in the order indicated.



- Icons in the operating procedure sentences appear when the camera is in its default settings.
- The default setting is indicated by ✓.
- 💡 indicates information that is useful to know.

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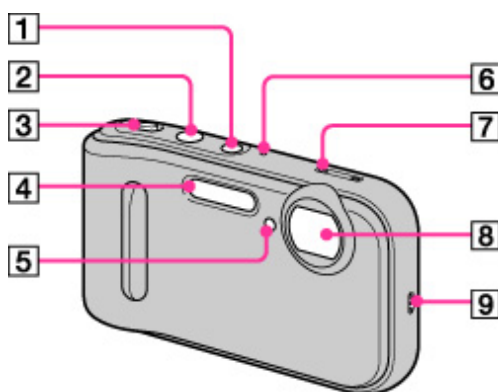
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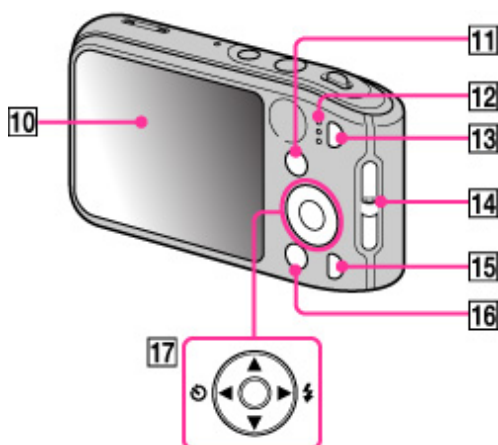
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## Names of parts

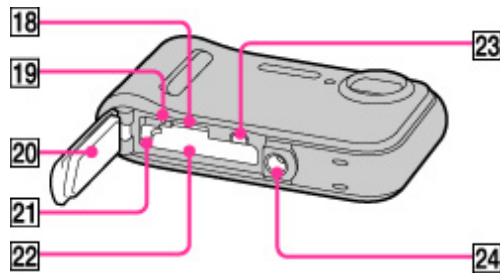


- 1** ON/OFF (Power) button
- 2** Shutter button
- 3** For shooting: W/T (zoom) lever  
For viewing:  (Index) lever/ (Playback zoom) lever
- 4** Flash
- 5** Self-timer lamp/Smile Shutter lamp/AF illuminator
- 6** Charge lamp/Light sensor
- 7** Microphone
- 8** Lens
- 9** Speaker



- 10** LCD screen
- 11**  (Playback) button
- 12** Mode lamp

- 13** Mode button
- 14** Hook for wrist strap
- 15** ?/❌ (In-Camera Guide/Delete) button
- 16** MENU button
- 17** Control button
- MENU on: ▲ / ▼ / ◀ / ▶
- MENU off: ⏻



- 18** Memory card slot
- 19** Access lamp
- 20** Battery/Memory card cover
- 21** Battery eject lever
- 22** Battery insertion slot
- 23** USB / A/V OUT terminal
- 24** Tripod socket hole

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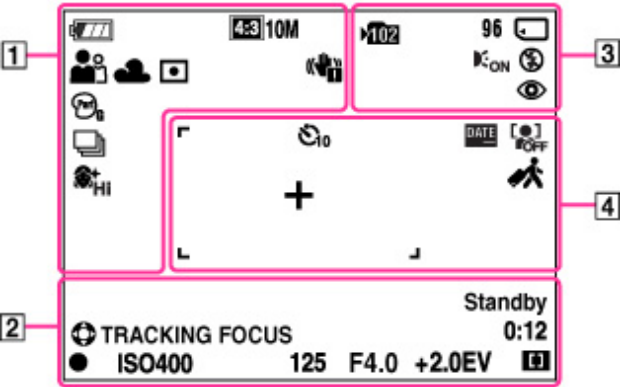
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List of shooting mode icons






1

Display	Indication
	Battery charge remaining
	Low battery warning
	Image size/Panorama image size/Movie size
	Picture Effect
	Scene Selection
	Shooting mode
	Scene Recognition icon
	White Balance
	Metering Mode
	Vibration warning
	Color hue
	Extracted Color
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	Cont. Shooting Settings




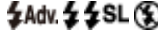




	Soft Skin Effect
	Smile Detection Sensitivity indicator
	Zoom scaling





## 2



Display	Indication
	Tracking focus
	AE/AF lock
ISO400	ISO number
125	Shutter speed
F4.0	Aperture value
+2.0EV	Exposure Compensation
	AF range finder frame indicator
REC Standby	Recording a movie/Movie standby
0:12	Recording time (m:s)

## 3

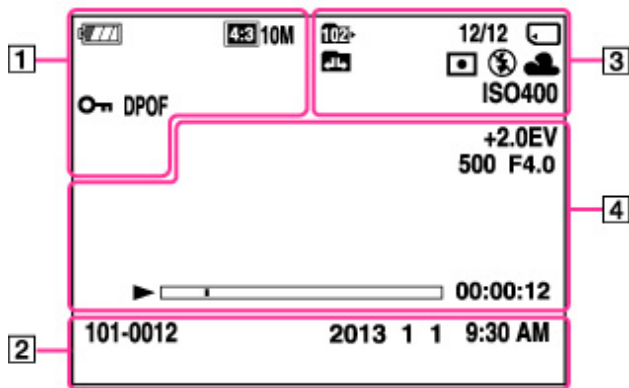
Display	Indication
	Recording folder
96	Number of recordable images
100Min	Recordable time
	Recording media (Memory card, internal memory)
	AF Illuminator
	Flash mode
	Red-eye reduction
	Flash charging

## 4






Display	Indication
	Self-timer
	Write Date
	Face detection
	Destination

	AF range finder frame
	Spot metering cross-hairs

## List of viewing mode icons







1



Display	Indication
	Battery charge remaining
	Low battery warning
	Image size/Panorama image size/Movie size
	Protect
<b>DPOF</b>	Print order (DPOF)
 × 2.0	Playback zoom

2




Display	Indication
101-0012	Folder-file number
2013-1-1 9:30 AM	Recorded date/time of the playback image

3

Display	Indication
	Playback folder
12/12	Image number/Number of images recorded in selected date range, folder
	Playback media (Memory card, internal memory)
	Changing folders
	Metering Mode

	Flash mode
	White Balance
ISO400	ISO number

4

Display	Indication
+2.0EV	Exposure Compensation
500	Shutter speed
F4.0	Aperture value
	Playback
	Playback bar
00:00:12	Counter
	Volume

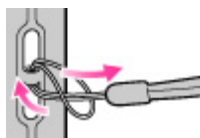
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## Using the wrist strap

Attach the strap and place your hand through the loop to prevent the camera from being submerged or damage by being dropped.

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## Using the internal memory

### ▼ On image data stored in the internal memory

The camera has approximately 43 MB of internal memory. You can record images on the internal memory when there is no memory card inserted in the camera.

#### When a memory card is inserted

[Recording]: Images are recorded on the memory card.

[Playback]: Images on the memory card are played back.

[Menu, Settings, etc.]: Various functions can be performed on images on the memory card.

#### When there is no memory card inserted

[Recording]: Images are recorded using the internal memory.

- You cannot record movies to the internal memory when the movie image size is [1280x720].

[Playback]: Images stored in the internal memory are played back.

[Menu, Settings, etc.]: Various functions can be performed on images in the internal memory.

### ■ On image data stored in the internal memory

We recommend that you copy (back up) data using one of the following methods.

#### To copy (back up) data on a hard disk of your computer

Without a memory card inserted in the camera, import the images into a computer. [\[Details\]](#)

#### To copy (back up) data on a memory card

Prepare a memory card with sufficient free capacity, then copy the images in the internal memory to the memory card. [\[Details\]](#)

#### Notes

- You cannot transfer image data on a memory card to the internal memory.
- By making a USB connection between the camera and a computer with a USB cable, you can transfer data stored in the internal memory to a computer. However you cannot transfer data on a computer to the internal memory.







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## In-Camera Guide

This camera contains an internal function guide. This allows you to search the camera's functions according to your needs.

You can use the selected function after reading the guide.

1. Press the MENU button.
2. Select the desired MENU item using  /  on the control button.
3. Press the  (In-Camera Guide) button.  
The operation guide for the MENU item you have selected in step 2 is displayed.
4. Use  /  to switch among summary, operation and detail screens.
  - When [Use this function] is displayed on the screen, select it to switch to that mode.
  - If you press the  (In-Camera Guide) button when the MENU screen is not displayed, you can search the guide using keywords or icons.

### Notes

-  (In-Camera Guide) button is not available in Easy Mode.
- Depending on the selected functions, the operation guide and details may not be displayed.

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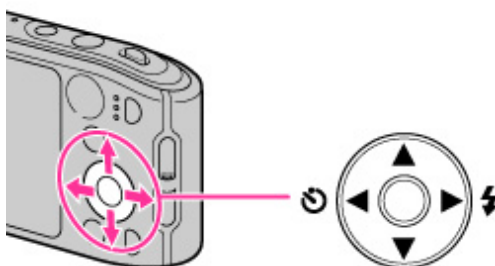
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## Using the control button

▼ Moving the selection frame on the MENU screen, etc.

▼ Selecting an image to be played back



The following functions are located on the right/left side of the control button: (Self-Timer) and (Flash).

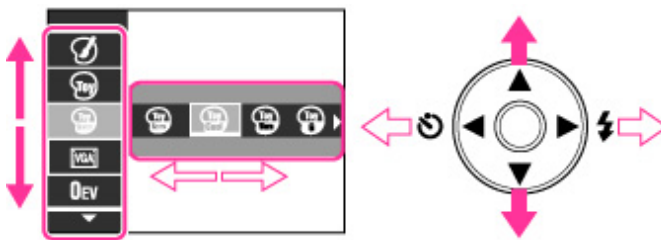
Press the control button toward each icon to enter the setup screen for each function.

Press the up/down/right/left side of the control button following the screen to move the selection frame.

Press in the center of the control button to set the selected item.

### Moving the selection frame on the MENU screen, etc.

Press the up/down/right/left side of the control button to move the selection frame.



### Selecting an image to be played back

Press the right or left side of the control button to play back the next/previous image.

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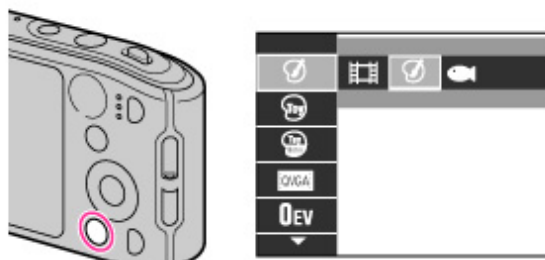
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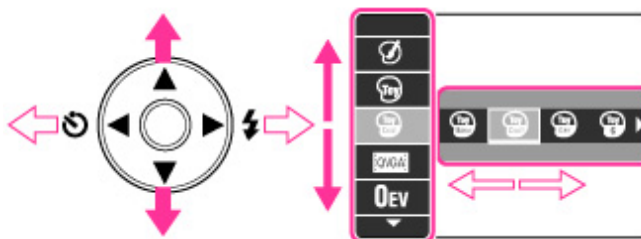
## Using MENU items (Shooting)

You can select the various shooting functions easily from the MENU button.

1. Press the ON/OFF (Power) button and set the camera to shooting mode.
2. Press the MENU button to display the Menu screen.



3. Select the desired menu item with ▲ / ▼ / ◀ / ▶ on the control button.



4. Press the MENU button to close the Menu screen.

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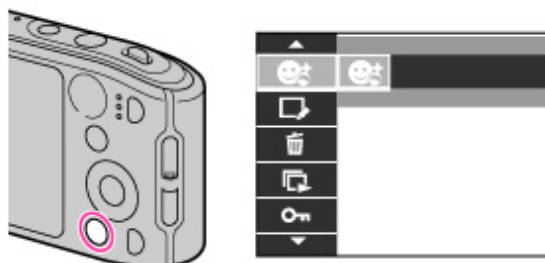
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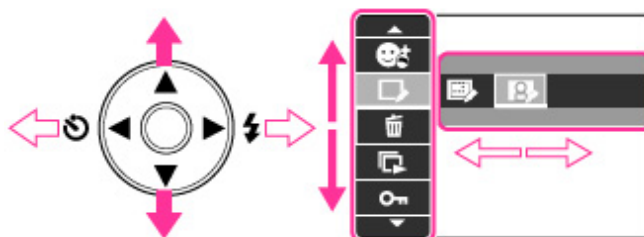
## Using MENU items (Viewing)


You can select the various viewing functions easily from the MENU button.

1. Press the  (Playback) button to switch to playback mode.
2. Press the MENU button to display the Menu screen.



3. Select the desired menu item with  /  /  /  on the control button.



4. Press  on the control button.

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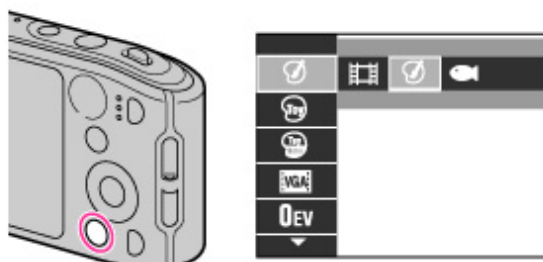
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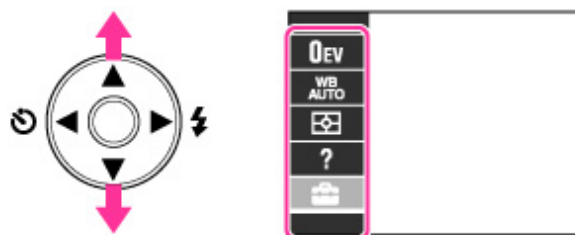
## Changing camera settings

You can change the settings on the [Settings] screen.

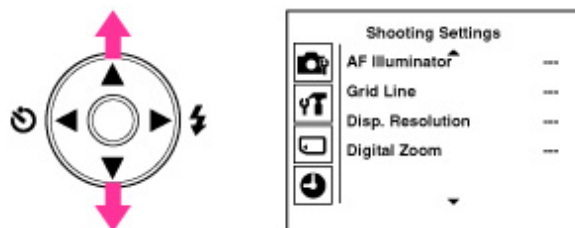
1. Press the MENU button to display the Menu screen.



2. Select  (Settings) with  $\blacktriangle$  /  $\blacktriangledown$  on the control button, then press  $\bullet$  to display the setup screen.



3. Select the desired category by using  $\blacktriangle$  /  $\blacktriangledown$  /  $\blacktriangleleft$  /  $\blacktriangleright$ , then press  $\bullet$  to display the setup screen.



4. Select the desired setting, then press  $\bullet$ .

### Notes


- [Shooting Settings] appears only when settings have been entered from shooting mode.
- [Memory Card Tool] appears only when a memory card is inserted in the camera, while [Internal Memory Tool] appears only when a memory card is not inserted.

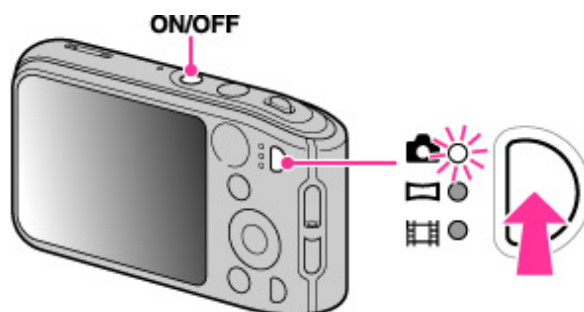
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## Shooting still images

1. Press the mode button to switch to  (Still Image).



2. Hold the camera steady as illustrated.




3. Press the shutter button halfway down to focus.  
When the image is in focus, a beep sounds and the  indicator lights.



- The shortest shooting distance is approximately 1 cm (0.39 inches) (W), 50 cm (1.64 ft) (T) (from the lens).
4. Press the shutter button fully down.
    - Do not put your fingers on the flash or lens when shooting.



 If you shoot a still image of a subject that is difficult to focus on

- When the camera cannot focus on the subject automatically, the AE/AF lock indicator changes to slowly flashing and the beep does not sound. Either recompose the shot or change the focus setting. [\[Details\]](#)

- Focusing may be difficult in the following situations:
  - It is dark and the subject is distant.
  - The contrast between the subject and the background is poor.
  - The subject is seen through glass.
  - The subject is moving quickly.
  - There is reflective light or shiny surfaces.
  - The subject is backlit or there is a flashing light.

---

Related Topic

[Viewing still images](#)

[Still Image Size / Panorama Image Size / Movie Size](#)

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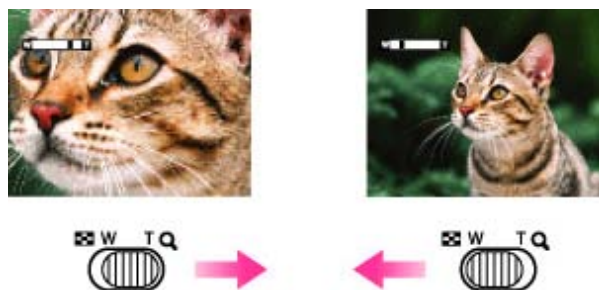
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## Zoom

You can enlarge the image when shooting. The camera's optical zoom function can enlarge images up to 4x.

1. Move the W/T (zoom) lever.

Move the W/T (zoom) lever to the T side to zoom in, W side to zoom out.



- When the zoom scale exceeds 4x, set [Digital Zoom]. [\[Details\]](#)

### Notes


- Zoom is locked to the W side in Sweep Panorama mode or Magnifying Glass mode.
- The operating sound of the lever may be recorded when the zoom function operates while shooting a movie.

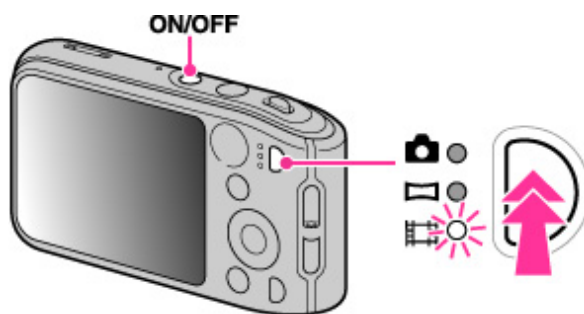
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## Shooting movies

1. Press the mode button to switch to  (Movie Mode).



2. Press the shutter button to start recording.



3. Press the shutter button again to stop recording.

### Notes

- The operating sound of the lever may be recorded when the zoom function operates while shooting a movie.
- You can shoot continuously for approximately 29 minutes at a time when the temperature is 25°C (77°F) and camera is set to the factory settings. When shooting stops, you can press the shutter button again to restart shooting. Depending on the temperature when shooting, recording may automatically stop to protect the camera.

### Related Topic

[Zoom](#)[Movie shooting scene](#)[Picture Effect](#)[▲ Back to top](#)

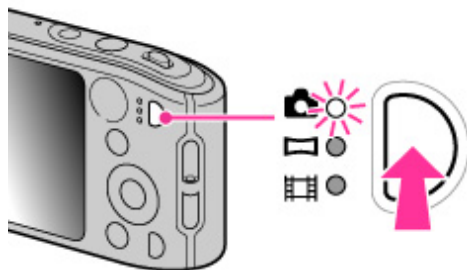
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## List of mode button functions

Press the mode button to switch to  (Still Image),  (Sweep Panorama) or  (Movie Mode).



 (Still Image)	Allows you to shoot still images. You can set the desired still image shooting mode using MENU → (REC Mode)
 (Sweep Panorama)	Allows you to shoot a panorama image by composing images.
 (Movie Mode)	Allows you to record movies. Press the shutter button down fully to start recording, and then press the shutter button again to end recording.

### Related Topic

[Intelligent Auto](#)

[Program Auto](#)

[Picture Effect](#)

[Scene Selection](#)

[Shooting panoramic images](#)

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## REC Mode

You can select the still image shooting mode when the shooting mode is set to [Still Image].

1. MENU →  (REC Mode) → desired mode

	 (Intelligent Auto)	Allows you to shoot with the setting adjusted automatically. <a href="#">[Details]</a>
	<b>P</b> (Program Auto)	Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value). <a href="#">[Details]</a> Also you can select various settings using the menu.
	 (Picture Effect)	Allows you to shoot a still image with original texture, according to the desired effect. <a href="#">[Details]</a>
	<b>SCN</b> (Scene Selection)	Allows you to shoot with preset settings according to the scene. <a href="#">[Details]</a>

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## Intelligent Auto

Allows you to shoot still images with the settings adjusted automatically.














1. Press the mode button to switch to  (Still Image).
2. MENU →  (REC Mode) →  (Intelligent Auto) → 
3. Shoot with the shutter button.

### Scene Recognition

Scene Recognition operates in Intelligent Auto mode. This function lets the camera automatically recognize the shooting conditions and shoot the image.



In Scene Recognition, the position of an icon displayed on the LCD screen is different depending on the circumstances. It depends on whether the camera recognizes a scene or condition.

If the camera recognizes a scene, icons and guides such as  (Portrait),  (Infant),  (Night Portrait),  (Night Scene),  (Backlight Portrait),  (Backlight),  (Landscape),  (Macro),  (Magnifying Glass),  (Spotlight) or  (Low Light), are displayed on the first line. If the camera recognizes a condition, icons such as  (Tripod) or  (Move) are displayed on the second line. The camera may recognize both the scene and condition, or just one.

### Related Topic

[Functions available for each shooting mode](#)





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## Program Auto

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value). Also you can select various settings using the menu.

1. Press the mode button to switch to  (Still Image).
2. MENU →  (REC Mode) →  (Program Auto) → 
3. Shoot with the shutter button.

### Related Topic




[Functions available for each shooting mode](#)[MENU items available for each shooting mode](#)[▲ Back to top](#)









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## Picture Effect

Allows you to shoot a still image with original texture, according to the desired effect.

1. Press the mode button to switch to  (Still Image).
2. MENU →  (REC Mode) →  (Picture Effect) → ● on the control button → desired mode
  - If you want to select another Picture Effect mode, select from MENU.


 (Toy camera)	<p>Allows you to shoot images with effects such as tunnel effect, high contrast, or color cast as if they were shot with a toy camera. You can change the color hue using MENU → [Color hue].</p> 
 (Pop Color)	<p>Allows you to shoot a pop art-like colorful image with emphasis on the color tone.</p> 
 (Partial Color)	<p>Allows you to shoot an image that makes a strong impression by leaving a specified color on portions of a monochrome image. You can select the color to extract using MENU → [Extracted Color].</p> 
 (Soft High-key)	<p>Allows you to shoot soft, clear images with an emphasis on brightness.</p> 

💡 Use the following procedures to add effects to panoramic images and movies.

When  (Sweep Panorama) mode is selected:

MENU → [Panorama Shooting Scene] → [Picture Effect] → desired mode

- [Toy camera] cannot be used for [Panorama Shooting Scene].

When  (Movie Mode) is selected:

MENU → [Movie shooting scene] → [Picture Effect] → desired mode

- [Toy camera] cannot be used for [Movie shooting scene].

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#### Related Topic

[Color hue](#)

[Extracted Color](#)

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## Scene Selection



Allows you to shoot with preset settings according to the scene.

1. Press the mode button to switch to  (Still Image).
  2. MENU →  (REC Mode) → **SCN** (Scene Selection) → ● on the control button → desired mode
- If you want to select another Scene Selection mode, select from MENU.

 (Soft Skin)	<p>Allows you to shoot faces for smoothness.</p> 
 (Soft Snap)	<p>Allows you to shoot images with a softer atmosphere for portraits and flowers, etc.</p> 
 (Landscape)	<p>Allows easy shooting of distant scenes by focusing in the distance. Shoots a clear sky, trees and flowers in vivid colors.</p> 
 (Night Portrait)	<p>Allows you to shoot sharp images of people with a night view in the background, without compromising the atmosphere.</p> 
 (Night)	<p>Allows you to shoot night scenes at far distance without losing the dark atmosphere of the surroundings.</p>

Scene)	
ISO (High Sensitivity)	<p>Allows you to shoot images without a flash under low light conditions, reducing blur.</p> 
II (Gourmet)	<p>Allows you to shoot food arrangements in delicious and bright colors.</p> 
🐱 (Pet)	<p>Allows you to shoot images of your pet with the best settings.</p> 
🌴 (Beach)	<p>Allows you to shoot scenes on the beach in bright and vivid colors even under the sunlight.</p> 
❄️ (Snow)	<p>Allows you to record clear images preventing sunken colors in snowy scenes or other places where the whole screen appears white.</p> 
🐟 (Underwater)	<p>Allows you to shoot underwater in natural colors.</p> 

### Notes

- When you shoot images using  (Night Portrait) or  (Night Scene) modes, the shutter speed is slower and the images tend to blur. To prevent blurring, the use of a tripod is recommended.

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### Related Topic

[Functions available for each shooting mode](#)

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## Shooting panoramic images

Allows you to create a panoramic image from composite images.



1. Press the mode button to switch to  (Sweep Panorama).
2. Align the camera with the end of the subject to be shot and press the shutter button fully.

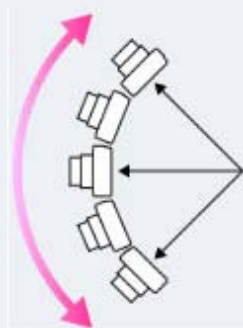


3. Pan the camera to the end of the guide (A), following the indicator on the screen.



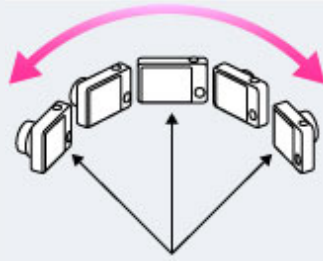
### Tips for shooting a panoramic image

Pan the camera in an arc at a constant velocity in the direction indicated on the screen. Subjects at rest are more suited for panoramic shots than moving subjects.  
Radius as short as possible.





Vertical direction



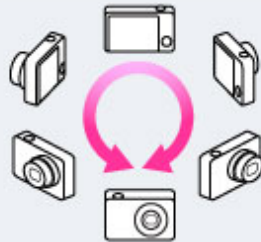
Horizontal direction

- First press the shutter button halfway so that you can lock the focus and exposure. Then press the shutter button fully down and pan or tilt the camera.
- If a section with greatly varied shapes or scenery is concentrated along a screen edge, the image composition may fail. In such a case, adjust the frame composition so that the section is in the center of the image, then shoot again.

 To shoot a 360 degree panoramic image

This camera is equipped with a panorama shooting function, capable of shooting a nearly 360 degree panoramic image.

Shoot a panoramic image by selecting MENU → set [Panorama Image Size] to [360°]. Recorded panoramic images can be scrolled normally when played on the camera.



- Press MENU → [Shooting Direction] → select [Right] or [Left]. [Up] and [Down] cannot be selected for [Shooting Direction] when shooting 360 degree panoramic images.
- The image actually recorded may not cover 360 degrees, depending on the subject or the way it is shot.

### Notes

- If you cannot pan the camera across the entire subject within the given time, a gray area occurs in the composite image. If this happens, move the camera faster to record a full panoramic image.
- Since several images are stitched together, the stitched part will not be recorded smoothly.
- When the whole angle of panoramic shooting and the AE/AF locked angle are very different in brightness, color and focus, the shooting will not be successful. If this happens, change the AE/AF locked angle and shoot again.
- You cannot create panoramic images in the following situations:
  - You pan the camera too quickly or too slowly.
  - There is too much camera shake.

### Related Topic

[Scrolling panoramic images for display](#)

[Shooting Direction](#)

[Still Image Size / Panorama Image Size / Movie Size](#)

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## Viewing still images

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1. Set the camera to playback mode.
2. Select an image with the control button.

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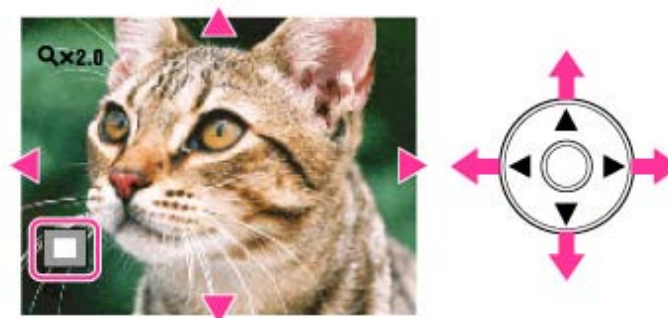
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## Playback zoom

Enlarges the image being played back.

1. Set the camera to playback mode.
2. Move the W/T (zoom) lever to the T side (Q) during still image playback.
3. Adjust the position using ▲ / ▼ / ◀ / ▶ on the control button.  
The frame in the lower left of the image shows which part of the total image is being displayed.



4. Change the zoom scale with the W/T (zoom) lever.  
Move the W/T (zoom) lever to the T side (Q) to zoom in, W side (checkered flag) to zoom out.  
Press ● on the control button to cancel playback zoom.

## To save enlarged images

You can save an enlarged image by using the trimming function.  
Press MENU → [Retouch] → [Trimming (Resize)].

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## Image Index

### ▼ Displaying images of the desired folder

Displays multiple images at the same time.

1. Set the camera to playback mode.
2. Move the W/T (zoom) lever to the W side (  ) to display the image index screen.  
Move the lever again to display an index screen with more images.
3. To return to the single-image screen, select an image with the control button, then press .

### ■ Displaying images of the desired folder

Select the left side bar with the control button, then select the desired folder with  / .

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


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## Deleting images

Allows you to select unwanted images for deletion.

You can also delete images from the MENU button. [\[Details\]](#)

1. Set the camera to playback mode.
2.  (Delete) button → desired mode →  on the control button
3. Press [OK] → .

All in This Folder	Deletes all images in the selected folder at once.
Multiple Images	<p>Allows you to select and delete multiple images.</p> <p>① After step 2, select an image to be deleted, then press .</p> <p>To cancel the selection, press  again to cancel the  mark.</p> <p>② MENU → [OK] → .</p>
This Image	Deletes the currently displayed image.
Cancel	Cancels the deletion.

 You can switch between index and single-image mode when selecting images. Move the W/T (zoom) lever to the T side () in index mode to return to single-image mode, and move the lever to the W side () in single-image mode to return to index mode.



### Notes

- In Easy Mode, you can only delete the currently displayed image.

### Related Topic


[Delete](#)

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## Viewing movies

1. Set the camera to playback mode.
2. Select a movie with the control button.
3. Press .








The playback bar appears, and a movie playback starts.

### On the movie viewing screen

Select the image you want to display using  /  on the control button, and press .

The Playback bar appears, you can check a playback position of a movie.



Control button	Action during playback
	Play/Pause
	Fast forward
	Fast rewind
	Displays the control screen. Adjust the volume with  /  on the control button, then press  .

### Notes

- You may not be able to play back some images shot using other cameras.

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## Scrolling panoramic images for display

You can scroll panoramic images by pressing the center button on the control button while panoramic images are being displayed.



A: Shows the displayed area of the whole panoramic image

Control button	Action
● on the control button	Starts scrolling playback/pauses scrolling playback
▲ / ▼ / ◀ / ▶ on the control button	Scrolls images
W side of W/T (zoom) lever	Displays the whole image

- Panorama images recorded using another camera may not scroll correctly when played.

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## Functions available for each shooting mode

### ▼ Functions available in REC modes

### ▼ Functions available in Scene Selection

### ▼ Functions available in Picture Effect

In the table below, a check mark indicates a function that can be changed, while — indicates function that cannot be changed. The icons below [Flash] and [Self-Timer] indicate the available modes.









### Functions available in REC modes

	Flash	Self-Timer	Face Detection	Smile Shutter	Tracking focus
(Intelligent Auto)	Adv.  AUTO	✓	✓	✓	✓
P (Program Auto)	AUTO   SL	✓	✓	✓	✓
(Sweep Panorama)		—	—	—	—
(Movie Mode)		—	—	—	—

### Functions available in Scene Selection

	Flash	Self-Timer	Face Detection	Smile Shutter	Tracking focus
(Soft Skin)	AUTO   SL	✓	✓	✓	✓
(Soft Snap)	AUTO   SL	✓	✓	✓	✓
(Landscape)		10  2	—	—	—
(Night Portrait)	SL	✓	✓	✓	✓
(Night Scene)		10  2	—	—	—
(High Sensitivity)		✓	✓	✓	✓
(Gourmet)		10  2	—	—	✓
(Pet)		10  2	—	—	✓
(Beach)		✓	✓	✓	✓
(Snow)		✓	✓	✓	✓
(Underwater)		10  2	—	—	—

### Functions available in Picture Effect

	Flash	Self-Timer	Face Detection	Smile Shutter	Tracking focus
 (Toy camera)		✓	✓	—	✓
 (Pop Color)		✓	✓	—	✓
 (Partial Color)		✓	✓	—	✓
 (Soft High-key)		✓	✓	—	✓

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## MENU items available for each shooting mode

### ▼ MENU items available in Scene Selection/Picture Effect mode

In the table below, a check mark indicates settings that can be changed, while – indicates settings that cannot be changed. A setting may be fixed or restricted depending on the shooting mode. For details, see each topic.

Mode button						
Menu items						
REC Mode	✓	✓	–	–	–	–
Panorama Shooting Scene	–	–	✓	✓	–	–
Movie shooting scene	–	–	–	–	✓	✓
Scene Selection	–	–	–	–	–	–
Picture Effect	–	–	–	–	–	–
Easy Mode	✓	✓	–	–	–	–
Color hue	–	–	–	–	–	–
Extracted Color	–	–	–	–	–	–
Soft Skin Effect	–	–	–	–	–	–
Still Image Size *1	✓	✓	–	–	–	–
Shooting Direction	–	–	✓	✓	–	–
Panorama Image Size	–	–	✓	✓	–	–
Movie Size	–	–	–	–	✓	✓
Macro	✓	✓	–	–	–	–
Exposure Compensation	✓	✓	✓	✓	✓	✓
ISO	–	✓	–	–	–	–
White Balance	–	✓	✓	–	✓	–
Underwater White Balance	–	–	–	✓	–	✓
Focus	–	✓	✓	✓	–	–
Metering Mode *2	–	✓	✓	✓	✓	–
Cont. Shooting Settings	✓	✓	–	–	–	–
Smile Shutter	✓	✓	–	–	–	–
Smile Detection Sensitivity	✓	✓	–	–	–	–
Face Detection	✓	✓				

			—	—	—	—
DRO	—	✓	—	—	—	—
In-Camera Guide	✓	✓	✓	✓	✓	✓
(Settings)	✓	✓	✓	✓	✓	✓






\*1 In [Advanced Flash] mode, the maximum still image size you can select is [4M].


\*2 In Movie Mode, [Spot] cannot be selected.


## MENU items available in Scene Selection/Picture Effect mode

The icons below **SCN** or indicate the available modes.

Menu items	SCN	(Still images)	(Panoramic images)	(Movies)
Panorama Shooting Scene	—	—	✓	—
Movie shooting scene	—	—	—	✓
Scene Selection	✓	—	—	—
Picture Effect	—	✓		
Easy Mode	✓	✓	—	—
Color hue	—		—	—
Extracted Color	—			
Soft Skin Effect* <sup>1</sup>		—	—	—
Still Image Size	✓	✓	—	—
Shooting Direction	—	—	✓	—
Panorama Image Size	—	—	✓	—
Movie Size	—	—	—	✓
Macro		—	—	—
Exposure Compensation	✓	✓	✓	✓
ISO		—	—	—
White Balance* <sup>2</sup>		—	—	—
Underwater White Balance		—	—	—
Focus	—	—	—	—
Metering Mode	—	—	—	—
Cont. Shooting Settings		✓	—	—
Smile Shutter		—	—	—
Smile Detection		—	—	—

Sensitivity				
Face Detection	  	✓	—	—
DRO	—	—	—	—
In-Camera Guide	✓	✓	✓	✓
 (Settings)	✓	✓	✓	✓

\*1 [Off] cannot be selected for [Soft Skin Effect] when Scene Selection is set to  (Soft Skin).

\*2 [Flash] cannot be selected for [White Balance] when Scene Selection is set to  (High Sensitivity).

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## Tracking focus

The camera tracks the subject and adjusts the focus automatically even when the subject is moving.

1. Press the mode button to switch to  (Still Image).
2. Point the camera at the subject, and press  on the control button.  
The target frame appears.



3. Place the target frame over the subject you want to focus on, and press  .  
Tracking begins.
4. Press the shutter button to shoot the image.

### Tracking a face

If you use the tracking focus function while the Face Detection function is activated, you can select a face to be given priority and register that face with the camera.

### Notes

- When you use the Digital Zoom, the tracking focus function is not available
- Tracking focus will automatically be canceled when the subject disappears from the screen or has failed to be tracked.

### Related Topic

[Face Detection](#)


[Functions available for each shooting mode](#)






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## Flash

1. Press  (Flash) on the control button.
2. Select the desired mode with the control button.

	<b>Adv.</b> (Advanced Flash)	Flash to a farther distance by increasing the upper limit value of ISO sensitivity.
	<b>AUTO</b> (Auto)	Flash automatically operates in dark locations or when there is a backlight.
	(On)	Flash always operates.
	<b>SL</b> (Slow Synchro)	Flash always operates. The shutter speed is slow in a dark place to clearly shoot background that is out of flash light.
	(Off)	Flash does not operate.



### When “White circular spots” appears in flash photos


These spots are caused by particles (dust, pollen, mist, floating object underwater, etc.) floating close to the lens. When they are accentuated by the camera's flash, they appear as white circular spots.



How can the “White circular spots” be reduced?

- Light the room and shoot the subject without flash.
- If you select **ISO** (High Sensitivity) mode in Scene Selection, [Flash] is automatically set to [Off].

### Notes

- The flash strobes twice. The first flash adjusts the light quantity.
- While charging the flash,  is displayed.
- You cannot use the flash during burst shooting.
- **Adv.** (Advanced Flash) can be selected only in [Intelligent Auto] mode. When **Adv.** (Advanced Flash) is selected, the maximum size of [Still Image Size] is [4M]. If [Still Image Size] is set to larger than [4M], [Still Image Size] is set to [4M] automatically.

### Related Topic

[Functions available for each shooting mode](#)













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## Self-Timer



### ▼ Automatic shooting with Self-portrait timer

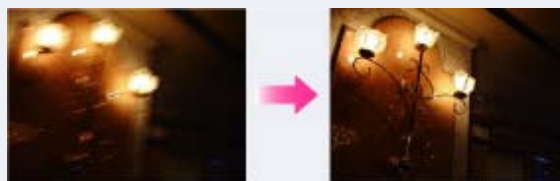
1. Press  (Self-Timer) on the control button.
2. Select the desired mode with the control button.

	 OFF (Off)	Does not use the self-timer.
	 10 (10sec)	Sets the self-timer to a 10-second delay. When you press the shutter button, the self-timer lamp flashes and a beep sounds until the shutter operates. To cancel, press  again.
	 2 (2sec)	Sets the self-timer to a 2-second delay.
	 (Self-portrait One Person)	Sets the self-timer to Self-portrait timer.
	 (Self-portrait Two People)	When the camera detects the specified number of faces, a beep sounds, and the shutter operates 2 seconds later.

### Tips for preventing blur

If your hands or body move while holding the camera and pressing the shutter button, "Camera shake" occurs.

Camera shake occurs frequently under low-light or slow shutter speed conditions, such as those encountered in  (Night Portrait) or  (Night Scene) mode.



To reduce camera shake, set the self-timer to a 2-second delay and brace your arms against your sides after pressing the shutter button.

### Automatic shooting with Self-portrait timer

Point the lens at yourself so that the selected number of faces is reflected in the screen. The shutter operates automatically. Do not move your camera after the beep sounds.



Related Topic

[Functions available for each shooting mode](#)

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## Movie shooting scene

You can select the movie shooting mode when the camera is set to [Movie Mode].

1. MENU →  (Movie shooting scene) → desired mode

	 (Auto)	Allows you to shoot movies with the settings adjusted automatically. <a href="#">[Details]</a>
	 (Picture Effect)	Allows you to shoot movies with an original texture according to the desired effect.
	 (Underwater)	Allows you to shoot movies underwater in natural colors.

Related Topic

[Picture Effect](#)

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## Panorama Shooting Scene

Allows you to shoot with preset settings according to the scene when the camera is in [Sweep Panorama] mode.

1. MENU →  (Panorama Shooting Scene) → desired mode

	 (Sweep Panorama)	Shoots a regular panoramic image.
	 (Picture Effect)	Allows you to shoot a panoramic image with an original texture according to the desired effect.
	 (Underwater Sweep Panorama)	Allows you to shoot images underwater in natural color in Sweep Panorama mode.

Related Topic

[Picture Effect](#)

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## Easy Mode

### ▼ Scene Recognition

#### ▼ Shooting functions available in Easy Mode (Shooting)

Allows you to shoot still images using the minimum necessary functions. The text size increases and indicators become easier to see.

1. MENU → **EASY** (Easy Mode) → ● on the control button.
2. [OK] → ●
3. Shoot with the shutter button.
  - To end Easy Mode, MENU → [Exit Easy Mode]

#### Notes

- The battery power may decrease faster because the screen brightness increases automatically.

## Scene Recognition

Scene Recognition operates in Easy Mode. This function lets the camera automatically recognize the shooting conditions and shoot an image.



For details, see “[Scene Recognition](#)”. [\[Details\]](#)


## Shooting functions available in Easy Mode (Shooting)







Still Image Size	MENU → [Still Image Size] → ● on the control button → desired mode → ● Select between [Large] or [Small] size.
Self-Timer	⌚ on the control button → desired mode Select between [10sec] or [Off] mode.
Flash	⚡ on the control button → desired mode Select between [Auto] or [Off] mode.

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## Color hue

When you select [Toy camera] in Picture Effect, adjust the color hue.

1. MENU →  (Color hue) → desired mode

	 (Normal)	Adds a normal hue and darkens the surroundings.
	 (Cool hue)	Adds a cool bluish hue and darkens the surroundings.
	 (Warm hue)	Adds a warm reddish hue and darkens the surroundings.
	 (Green hue)	Adds a green filter-like hue and darkens the surroundings.
	 (Magenta hue)	Adds a magenta filter-like hue and darkens the surroundings.

### Notes

- It is recommended that you shoot a test image in advance for some subjects.

Related Topic

[Picture Effect](#)

[MENU items available for each shooting mode](#)


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## Extracted Color

When you select [Partial Color] in Picture Effect, select the color to extract.

1. MENU →  (Extracted Color) → desired mode

	 (Red)	Extracts red only.
	 (Green)	Extracts green only.
	 (Blue)	Extracts blue only.
	 (Yellow)	Extracts yellow only.

### Notes

- Images may not retain the selected color, depending on the subject.

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## Soft Skin Effect

When the Face Detection function is activated, sets whether to use the Soft Skin Effect, and the effect level.

1. MENU →  (Soft Skin Effect) → desired mode

	 OFF (Off)	Does not use the Soft Skin Effect.
	 Lo (Low)	Adds light, moderate or strong Soft Skin Effect.
	 Mid (Mid)	
	 Hi (High)	

### Notes

- The [Soft Skin Effect] may not be visible depending on the subject.

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## Still Image Size / Panorama Image Size / Movie Size

### ▼ Image size when shooting still images

#### ▼ Image size in Easy Mode

#### ▼ Image size when shooting Sweep Panorama












#### ▼ Image size when shooting movies

The image size determines the size of the image file that is recorded when you take an image.

The larger the image size, the more detail will be reproduced when the image is printed on large-format paper. The smaller the image size, the more images can be recorded.

### Image size when shooting still images

1. MENU →  10M (Still Image Size) → desired size

	Still Image Size (Horizontal × Vertical)	Usage guidelines	Number of images	Printing
✓	 16M (4608×3456)	For prints up to A3+ size	Less  ↑↓	Fine 
	 10M (3648×2736)	For prints up to A3 size		
	 5M (2592×1944)	For prints from 10×15 cm up to A4 size		
	 4M (2304 × 1728) • You can select [4M] only when the flash mode is set to [Advanced Flash].	For prints from 10×15 cm up to A4 size	More  ↑↓	Rough 
	 VGA (640×480)	For e-mail attachments		
	 12M (4608×2592)	For viewing on a high-definition TV and printing up to A3 size	Less ↑↓	Fine ↑↓
	 2M (1920×1080)	For viewing on a high-definition TV	More ↑↓	Rough ↑↓

### Notes


- When you print still images recorded at a 16:9 aspect ratio or panorama images, both edges may be cut off.




### Image size in Easy Mode

1. MENU → [Still Image Size] → desired size

✓	Large	Shoots images in [16M] size.
	Small	Shoots images in [5M] size.

## Image size when shooting Sweep Panorama

1. MENU →  (Panorama Image Size) → desired size




✓	 (Standard) (Horizontal: 4912 × 1080) (Vertical: 3424 × 1920)	Shoots images using standard size.
	 (Wide) (Horizontal: 7152 × 1080) (Vertical: 4912 × 1920)	Shoots images using wide size.
	 (360°) Horizontal: 11520 × 1080	Shoots 360-degree images.

## Image size when shooting movies

The larger the size of the movie image, the higher the image quality.

The movies shot with this camera will be recorded in AVI (Motion JPEG), Approx. 30fps format.

1. MENU →  (Movie Size) → desired size

	Movie Size	Usage guidelines
✓	 1280x720	For viewing on a high-definition TV.
	 VGA (640 × 480)	For viewing on a TV screen.
	 QVGA (320 × 240)	For sending as an e-mail attachment.

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## Shooting Direction

Set the direction in which the camera will be panned when shooting in Sweep Panorama mode.

1. MENU →  (Shooting Direction) → desired direction

	 (Right)	Pan from left to right.
	 (Left)	Pan from right to left.
	 (Up)	Pan from down to up.
	 (Down)	Pan from up to down.

### Notes

- [Up] and [Down] cannot be selected when [Image Size] is set to [360°].

Related Topic

[Shooting panoramic images](#)

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## Macro

Use this setting to capture beautiful close-up images of small subjects such as insects or flowers.

1. MENU →  (Macro) → desired mode

	 (Auto)	The camera adjusts the focus automatically from distant subjects to close-up.
	 (Magnifying Glass)	Use this mode to shoot at close distances. Locked to the W side: Approximately 1 cm to 20 cm (0.39 inches to 7.87 inches)

### Notes

- [Macro] is set to [Auto] in the following situations:
  - When the Smile Shutter function is activated
  - In Easy Mode
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People]
- Note the following points when using the [Magnifying Glass] mode.
  - You cannot use the Scene Recognition or Face Detection functions.
  - This mode is canceled if you turn off the power or switch the shooting mode to another one.
  - The flash mode settings you can use in this mode are [On] or [Off] only.
  - The focus speed becomes slower.

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## Exposure Compensation

You can adjust the exposure manually in 1/3 EV steps in a range of -2.0 EV to +2.0 EV.

1. MENU → **Dev** (Exposure Compensation) → desired Exposure Compensation setting

 Adjusting the exposure for better looking images



A: Overexposure (too much light)

B: Correct exposure

C: Underexposure (too little light)

- When the image shot is overexposed, adjust [Exposure Compensation] to the minus side.
- When the image shot is underexposed, adjust [Exposure Compensation] to the plus side.

### Notes

- If you shoot a subject in extremely bright or dark conditions, or when you use the flash, the exposure adjustment may not be effective.

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## ISO

Adjusts the luminous sensitivity when the camera is set to Program Auto. In Movie mode, [ISO] is fixed to [Auto].

1. MENU → **ISO AUTO** (ISO) → desired mode

✔	ISO AUTO (Auto)	Sets the ISO sensitivity automatically.
	ISO 100/200/400/800 ISO 1600/3200	You can reduce image blurring in dark locations or with moving subjects by increasing the ISO sensitivity (select a larger number).

 **Adjusting ISO Sensitivity (Recommended Exposure Index)**  
ISO sensitivity is a speed rating for recording media that incorporates an image sensor that receives light. Even when the exposure is the same, images differ depending on the ISO sensitivity.  
High ISO sensitivity



Records a bright image even in dark locations while increasing shutter speed to reduce blur. However, the image tends to be noisy.  
Low ISO sensitivity



Records a smoother image. However, when the exposure is insufficient, the image may be darker.

Related Topic  
[MENU items available for each shooting mode](#)












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## White Balance

Adjusts color tones according to the surrounding light conditions. Use this function if the image color appears unnatural.

1. MENU →  (White Balance) → desired mode

	 (Auto)	Adjusts the white balance automatically so that the colors appear natural.
	 (Daylight)	Adjusts for outdoors conditions on a fine day, evening views, night scenes, neon signs, fireworks, etc.
	 (Cloudy)	Adjusts for a cloudy sky or a shady location.
	 (Fluorescent White Balance 1)  (Fluorescent White Balance 2)  (Fluorescent White Balance 3)	[Fluorescent White Balance 1]: Adjusts for white fluorescent lighting. [Fluorescent White Balance 2]: Adjusts for natural white fluorescent lighting. [Fluorescent White Balance 3]: Adjusts for daylight fluorescent lighting.
	 (Incandescent)	Adjusts for places under incandescent lamp, or under bright lighting, such as in a photo studio.
	 (Flash)	Adjusts for flash conditions.

### Effects of lighting conditions

The apparent color of the subject is affected by the lighting conditions.

The color tones are adjusted automatically, but you can adjust color tones manually using the White Balance function.



Daylight (White as Standard)



Cloudy (Bluish)





Fluorescent (Green-tinged)



Incandescent (Reddish)

#### Notes

- When shooting with a flash in other than [Flash] mode, [White Balance] is set to [Auto].
- When [Flash] is [On] or [Slow Synchro], the white balance can only be adjusted to [Auto] or [Flash].

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Related Topic

[MENU items available for each shooting mode](#)

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
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## Underwater White Balance

Adjusts the color tones when the camera is set to [Underwater] mode in [Scene Selection], [Underwater] mode in [Movie shooting scene] or [Underwater Sweep Panorama] in [Panorama Shooting Scene].

1. MENU →  (Underwater White Balance) → desired mode

	 (Auto)	Automatically adjusts the color tones for underwater conditions to make the colors appear natural.
	 (Underwater 1)	Adjusts for underwater conditions where blue is strong.
	 (Underwater 2)	Adjusts for underwater conditions where green is strong.

### Notes

- Depending on the color of the water, Underwater White Balance may not work correctly even though you select [Underwater 1] or [Underwater 2].

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## FOCUS

### ▼ Focusing on subjects near the edge of the screen

You can change the focus method. Use the menu when it is difficult to get the proper focus in auto focus mode.

AF stands for “Auto Focus,” a function that adjusts the focus automatically. The selected AF range finder frame appears on the screen.

1. MENU →  (Focus) → desired mode

	 (Multi AF)	<p>Focuses on a subject in all ranges of the finder frame automatically. When you press the shutter button halfway down in still image shooting mode, a green frame is displayed around the area that is in focus.</p>  <ul style="list-style-type: none"><li>• When the Face Detection function is active, AF operates with priority on faces.</li><li>• When Scene Selection is set to  (Underwater), focus operation is adjusted to underwater shooting. When focus is achieved by half pressing the shutter button, a large frame is displayed in green.</li></ul>
	 (Center AF)	<p>Focuses on a subject in the center of the finder frame automatically. Using the AF lock function together, you can compose the image the way you want.</p> 

### Notes

- When you use [Digital Zoom] or [AF Illuminator], the AF range finder frame is disabled and appears in a dotted line. In this case, the camera works to focus on the subjects at the center of the screen.
- If the tracking focus is activated, the camera focuses with priority on the subject to be tracked.

### ▮ Focusing on subjects near the edge of the screen

If the subject is out of focus, do as follows:



1. Recompose the shot so that the subject is centered in the AF range finder (A), and press the shutter button halfway to focus on the subject (AF lock).
2. When the AE/AF lock indicator (B) stops flashing and remains on, return to the fully composed shot, and press the shutter button fully down.

---

Related Topic

[Tracking focus](#)

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## Metering Mode

Selects the metering mode that sets which part of the subject to measure to determine the exposure.

1. MENU →  (Metering Mode) → desired mode

	 (Multi)	Divides into multiple regions and measures each region. The camera determines a well-balanced exposure (Multi-pattern metering).
	 (Center)	Measures the center of the image, and determines the exposure based on the brightness of the subject there (Center-weighted metering).
	 (Spot)	Align the spot metering cross hairs (A) on the subject to meter one part of the subject (Spot metering). This function is useful when the subject is backlit or when there is strong contrast between the subject and the background. 

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## Cont. Shooting Settings

You can select Single Shooting or Continuous Shooting as the shooting mode.

1. MENU →  (Cont. Shooting Settings) → desired mode

	 (Single Shooting)	The camera shoots a single image.
	 (Continuous Shooting)	The camera shoots up to 100 frames and up to approximately 1 frame per second when you continue to hold down the shutter button.

### Notes

- [Flash] is set to [Off].
- When recording with the self-timer, a series of up to 5 images is recorded.
- The recording interval becomes longer, depending on the setting for the image size.
- [Focus], [White Balance], and [Exposure Compensation] are adjusted for the first image, and these settings are also used for the other images.
- When the internal memory or a memory card is full, the burst stops.

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## Smile Shutter

When the camera detects a smile, the shutter is released automatically.



1. MENU → 😊 (Smile Shutter) → [On]

2. Wait for a smile to be detected.

When a smile is detected and the smile level exceeds the ◀ point on the indicator, the camera records images automatically.

✓	☹️ (Off)	Does not use the [Smile Shutter] function.
	😊 (On)	Uses the [Smile Shutter] function.

### 💡 Tips for better capturing of smiles



- ❶ Do not cover the eyes with bangs. Do not obscure the face by hat, mask, sunglasses, etc.
  - ❷ Try to orient the face in front of the camera and be as level as possible. Keep the eyes narrowed.
  - ❸ Give a clear smile with an open mouth. The smile is easier to detect when the teeth are showing.
- The shutter operates when any person whose face is being detected smiles.
  - If a smile is not detected, select MENU → [Smile Detection Sensitivity], then set the value to [Slight Smile].

### Notes

- Shooting using the Smile Shutter ends automatically when either the memory card or internal memory becomes full.
- Smiles may not be detected correctly depending on the conditions.
- You cannot use the digital zoom function.

---

### Related Topic

[Smile Detection Sensitivity](#)

[Functions available for each shooting mode](#)

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## Smile Detection Sensitivity

Sets the sensitivity of the Smile Shutter function for detecting smiles.

1. MENU →  (Smile Detection Sensitivity) → desired mode

	 (Big Smile)	Detects a big, normal or slight smile.
	 (Normal Smile)	
	 (Slight Smile)	

### Notes

- Smiles may not be detected correctly depending on the conditions.

Related Topic

[Smile Shutter](#)

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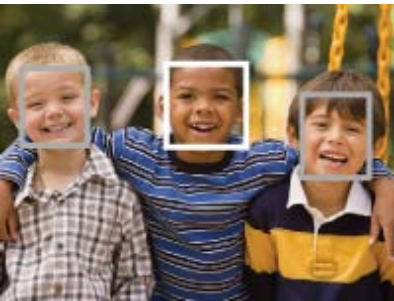
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## Face Detection

When the Face Detection function is used, the camera detects the faces of your subjects and adjusts the focus, flash, exposure, white balance and red-eye reduction settings automatically.



1. MENU →  (Face Detection) → desired mode

	[OFF] (Off)	Cannot use Face Detection.
	 (Auto)	Selects the face the camera is to automatically focus on.

### Notes

- [Off] is not available when [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].
- You can select [Face Detection] only when the focus mode is set to [Multi AF] and the metering mode is set to [Multi].
- The Face Detection function does not operate when you use the digital zoom.
- Up to 8 faces of your subjects can be detected.
- During Smile Shutter shooting, [Face Detection] is automatically set to [Auto] even if it is set to [Off].

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[Tracking focus](#)  
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## DRO

The camera analyzes the shooting scene and automatically corrects the brightness and contrast to improve the image quality.  
DRO stands for “Dynamic Range Optimizer,” a function that automatically optimizes the difference between light and dark parts of an image.

1. MENU →  (REC Mode) →  (Program Auto) →  (DRO) → desired mode

	 (Off)	Does not adjust.
	 (DRO Standard)	Adjusts the brightness and contrast of the images automatically.
	 (DRO plus)	Adjusts image brightness and contrast automatically and strongly.

### Notes

- Depending on shooting conditions, it may not be possible to obtain correction effects.
- Only [ISO AUTO] or values from [ISO 100] to [ISO 800] can be set for the ISO value when [DRO plus] is set.






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## List of viewing MENU items

Menu items	Memory card	Internal Memory
<b>EASY</b> (Easy Mode)	✓	✓
 (Beauty Effect)	✓	✓
 (Retouch)	✓	✓
 (Delete)	✓	✓
 (Slideshow)	✓	✓
 (Protect)	✓	✓
Print (DPOF)	✓	—
 (Rotate)	✓	✓
 (In-Camera Guide)	✓	✓
 (Settings)	✓	✓

### Notes

- Only the items that are available for each mode are displayed on the screen.

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## Easy Mode

When viewing still images in Easy Mode, the playback screen text becomes larger, and the indicators become easier to see.


1. Set the camera to playback mode.
2. MENU → **EASY** (Easy Mode) → [OK] → ● on the control button
  - To end Easy Mode, MENU → [Exit Easy Mode].

### Notes

- The battery charge is used up more quickly because the screen brightness increases automatically.
- The shooting mode also changes to [Easy Mode].

## Viewing functions available in Easy Mode

In Easy Mode, only the deletion function is available.

 (Delete)	You can delete the currently displayed image.
MENU	You can delete the currently displayed image using [1 image], and delete all images in a folder when the memory card is selected or all images in the internal memory (if selected) using [All]. Select [Exit Easy Mode] → [OK] to exit Easy Mode.

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## Beauty Effect

Allows you to apply the Beauty Effect to retouch the still image of a person and make it look better, for example, retouching for smoother skin, larger eyes, and whiter teeth.

You can set the effects from level 1 to 5. An image on which the Beauty Effect is used is saved as a new file. The original image is retained as is.

1. Set the camera to playback mode.
2. MENU →  (Beauty Effect) →  on the control button.
3. Select a face you want to use the Beauty Effect for.
4. Select the desired effect and perform retouching according to the operation method in each mode.

 (Skin Toning)	Retouch the image to change the skin color to the desired effect. ① Select the desired base skin color using ▲ / ▼ and press  . ② Increase or decrease the color using ▲ / ▼ .
 (Skin Smoothing)	Retouch the image to remove age spots and wrinkles from the skin. Increase or decrease the effect using ▲ / ▼ .
 (Shine Removal)	Retouch the image to suppress the oily skin look. Increase or decrease the effect using ▲ / ▼ .
 (Eye Widening)	Retouch the image to enlarge the eyes. Increase or decrease the effect using ▲ / ▼ .
 (Teeth Whitening)	Retouch the image to whiten the teeth. You may not be able to whiten teeth for some images. Increase or decrease teeth whiteness using ▲ / ▼ .

### Notes

- You cannot use [Beauty Effect] for the following images:
  - Panoramic images
  - Movies
- You cannot use the Beauty Effect on an extremely small facial image.
- To use the Beauty Effect on two or more faces, select the same image again after the effect has been applied once and then use the effect on another face.
- The Beauty Effect may not work properly for some images.


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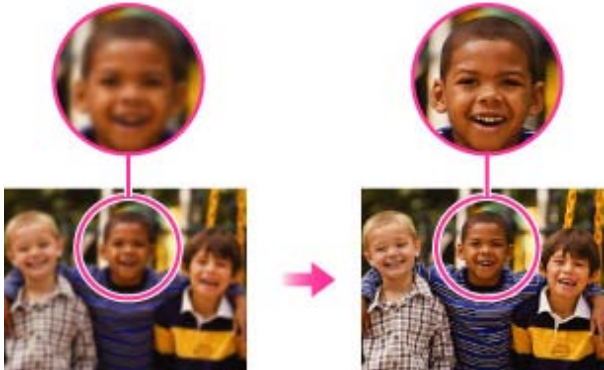
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## Retouch

Retouches a recorded image and saves it as a new file. The original image is retained.

1. Set the camera to playback mode.
2. MENU →  (Retouch) → desired mode → ● on the control button
3. Perform retouching according to the operation method in each mode.

 (Trimming (Resize))	<p>Records a zoomed playback image.</p>  <ol style="list-style-type: none"> <li>① Move the  lever to the T side to zoom in, to the W side to zoom out.</li> <li>② Set the zoom point with the control button.</li> <li>③ MENU → select an image size to save → ●</li> </ol> <ul style="list-style-type: none"> <li>● The quality of trimmed images may deteriorate.</li> <li>● The image size that you can trim may vary depending on the image.</li> </ul>
 (Unsharp masking)	<p>Sharpens the image within a chosen frame.</p>  <p>Select the area (frame) of the desired image to retouch with the control button → MENU.</p> <ul style="list-style-type: none"> <li>● Depending on the image, sufficient correction may not be applied and the image quality may deteriorate.</li> </ul>

### Notes

- You cannot retouch the panoramic images or movies.




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




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## Delete

Allows you to select unwanted images for deletion.

You can also delete image using  (Delete) button [\[Details\]](#).

1. Set the camera to playback mode.
2. MENU →  (Delete) → desired mode →  on the control button
3. [OK] → 

 (This Image)	Deletes the currently displayed image in single-image mode.
 (Multiple Images)	Allows you to select and delete multiple images. <ol style="list-style-type: none"> <li>① After step 2, select an image to be deleted, then press .</li> <li>To cancel the selection, press  again to cancel the  mark.</li> <li>② MENU → [OK] → </li> </ol>
 (All in This Folder)	Deletes all still images and movies in the selected folder at once.

### Notes

- In Easy Mode, you can select from [1 image] or [All].

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## Slideshow

Images are automatically played back in succession.

1. Set the camera to playback mode.
2. MENU →  (Slideshow) →  on the control button.
3. Select a desired setting.
4. [Start] → .
5. Press  to end the slideshow.

### Notes

- You cannot play back movies or panorama images.

## Playback Selection

Selects the group of images to be shown.

<input checked="" type="checkbox"/>	All	Plays a slideshow of all the images in order.
<input type="checkbox"/>	Folder	Plays a slideshow of images in the currently selected folder.

### Notes

- This setting is fixed to [Folder] when the internal memory is used to record images.

## Interval

Sets the screen switching interval.

<input type="checkbox"/>	1 sec	Switches the screen at the selected interval.
<input checked="" type="checkbox"/>	3 sec	
<input type="checkbox"/>	5 sec	
<input type="checkbox"/>	10 sec	

## Repeat

Turns slideshow repeat on or off.

<input checked="" type="checkbox"/>	On	Plays back images in a continuous loop.
<input type="checkbox"/>	Off	After all the images have been played back, the slideshow ends.






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## Protect

### ▼ To cancel protection

Protects recorded images against accidental erasure.  
The  mark is displayed for registered images.

1. Set the camera to playback mode.
2. MENU →  (Protect) → desired mode →  on the control button

 (This Image)	Protects the currently displayed image in single-image mode.
 (Multiple Images)	<p>You can select and protect multiple images.</p> <p>① After step 2, select an image to be protected, then press .</p> <p>To cancel the selection, press  again to cancel the  mark.</p> <p>② MENU → [OK] → </p>

### ■ To cancel protection

Select the image for which you want to cancel protection, and unlock it by pressing  on the control button as the same procedure to protect it. The  indicator disappears, and the protection is released.

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## Print (DPOF)

### ▼ Clearing the DPOF mark

DPOF (Digital Print Order Format) is a function that allows you to specify the images of the memory card that you want to print out later.

The **DPOF** (Print order) mark is displayed for registered images.

1. Set the camera to playback mode.
2. MENU → **DPOF** → desired mode → ● on the control button

 (This Image)	Orders printing the currently displayed image in single-image mode.
 (Multiple Images)	<p>You can select and order multiple images to be printed.</p> <p>① After step 2, select an image to be printed, then press ● .</p> <p>To cancel the selection, press ● again to cancel the ✓ mark.</p> <p>② MENU → [OK] → ●</p>

### Notes

- The **DPOF** (Print order) mark cannot be added to the following images:
  - Movies
  - Images in the internal memory
- You can add a **DPOF** (Print order) mark to a maximum 999 images.

### Clearing the DPOF mark

Select the image to clear the DPOF registration, then press ● on the control button in the same procedure as when making a **DPOF** mark. The **DPOF** mark disappears and the DPOF registration is cleared.

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[Printing still images](#)

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## Rotate

Rotates a still image. Use this to display a horizontal orientation image in vertical orientation.



1. Set the camera to playback mode.
2. MENU →  (Rotate) →  on the control button

### Notes

- You cannot rotate the following images:
  - Movies
  - Protected still images
- You may not be able to rotate images shot with other cameras.
- When viewing images on a computer, the image rotation information may not be reflected, depending on the software.


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## AF Illuminator




The AF illuminator supplies fill light to focus more easily on a subject in dark surroundings. The AF illuminator emits red light allowing the camera to focus easily when the shutter button is pressed halfway, until the focus is locked.

The  indicator appears at this time.

1. Set the camera to shooting mode.
2. MENU →  (Settings) →  (Shooting Settings) → [AF Illuminator] → desired mode → 

<input checked="" type="checkbox"/>	Auto	Sets whether to use the AF illuminator automatically in dark surroundings.
<input type="checkbox"/>	Off	

### Notes

- Focus is achieved as long as the AF illuminator light reaches the subject, regardless of whether light fails to reach the center of the subject.
- You cannot use the AF illuminator in the following situations:
  - In movie mode
  - In [Sweep Panorama]
  - When  (Landscape),  (Night Scene) or  (Pet) mode is selected in Scene Selection.
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].
- When you use the AF illuminator, the normal AF range finder frame is disabled and a new AF range finder frame is displayed by a dotted line. AF operates with priority on subjects located near the center of the frame.
- The AF illuminator emits very bright light. Although there is no health hazard, do not look directly into the AF illuminator emitter at close range.


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## Grid Line

With reference to the grid lines, you can easily set a subject in a horizontal/vertical position.

1. Set the camera to shooting mode.
2. MENU →  (Settings) →  (Shooting Settings) → [Grid Line] → desired mode → ●

	On	Displays the grid lines. The grid lines are not recorded.
	Off	Does not display the grid lines.




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## Disp. Resolution

Adjusts the image quality on the screen for shooting.

1. Set the camera to shooting mode.

2. MENU →  (Settings) →  (Shooting Settings) → [Disp. Resolution] → desired mode → 

	High	Displays the image on the screen in high image quality.
	Standard	Displays the image on the screen in standard image quality.

### Notes

- The battery power may decrease faster when [Disp. Resolution] is set to [High].
- In Sweep Panorama and Movie Mode, [Disp. Resolution] is set to [High].

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## Digital Zoom

### ▼ Total zoom scale when using Smart zoom (including optical zoom 4×)

Selects the digital zoom mode. The camera enlarges the image using optical zoom (up to 4×). When the zoom scale is exceeded, the camera uses either smart or precision digital zoom.

1. Set the camera to shooting mode.
2. MENU →  (Settings) →  (Shooting Settings) → [Digital Zoom] → desired mode → 

	Smart (S Q)	Enlarges the image digitally within the range where the image will not be distorted, according to the image size (Smart zoom).
	Precision (P Q)	Enlarges all image sizes by the total zoom scale of approximately 16×, including the optical zoom 4×. However, note that the image quality deteriorates when the optical zoom scale is exceeded (Precision digital zoom).
	Off	Does not use the digital zoom.

### Notes

- [Digital Zoom] is not available in the following situations:
  - In [Sweep Panorama]
  - When the Smile Shutter function is activated.
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].
- The smart zoom is not available when you record movies or the image size is set to [16M] or [16:9(12M)].
- The Face Detection function does not operate in the range of [Digital Zoom].

### ■ Total zoom scale when using Smart zoom (including optical zoom 4×)

The supported zoom ratio differs depending on the image size.

Size	Total zoom scale
10M	Approx. 5×
5M	Approx. 7.1×
VGA	Approx. 28×
16:9(2M)	Approx. 9.6×



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## Red Eye Reduction

The flash strobos two or more times before shooting to reduce the red-eye phenomenon when using flash.

1. Set the camera to shooting mode.
2. MENU →  (Settings) →  (Shooting Settings) → [Red Eye Reduction] → desired mode  
→ ●

<input checked="" type="checkbox"/>	Auto	When the Face Detection function is activated, the flash strobos automatically to reduce the red-eye phenomenon.
<input type="checkbox"/>	On	The flash always strobos to reduce the red-eye phenomenon.
<input type="checkbox"/>	Off	Does not use Red Eye Reduction.

### 💡 What causes the red-eye phenomenon?





Pupils become dilated in dark environments. The flash light is reflected off the blood vessels at the back of the eye (retina) (A), causing the “red-eye” phenomenon.



### Other ways to reduce red-eye

- Select  (High Sensitivity) mode in Scene Selection. (The flash is set to [Off] automatically.)

### Notes

- To avoid blurring of images, hold the camera firmly until the shutter is released. It usually takes a second until the shutter is released, and also be sure not to allow the subject to move during this period.
- Red Eye Reduction may not produce the desired effects. It depends on individual differences and conditions, such as the distance to the subject or if the subject looked away from the pre-strobe.
- If you do not use the Face Detection function, Red Eye Reduction does not work, even when you select [Auto].
- [Red Eye Reduction] is set to [Off] in the following situations:
  - When  (Night Scene),  (High Sensitivity),  (Gourmet) or  (Pet) mode is selected in Scene Selection.
  - When the Smile Shutter function is activated.

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## Write Date

Sets whether to record a shooting date on the still image.



1. Set the camera to shooting mode.
2. MENU → (Settings) → (Shooting Settings) → [Write Date] → desired mode → ●

	On (  )	Records a shooting date. When [On] is selected, the  mark will appear on the screen while shooting. However, in some shooting modes that cannot record dates on images, the  mark will disappear.
	Off	Does not record a shooting date.

### Notes


- You cannot record dates in the following situations:
  - In movie mode
  - When shooting panoramic images
  - In burst shooting mode
  - In [Easy Mode]
- If you shot images with the date once, you cannot delete the date from the images later.
- The dates are doubly printed, if you set the camera to superimpose the dates when printing.
- The recorded time of the image cannot be superimposed on the image.


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## Beep

Selects the sound produced when you operate the camera.

1. MENU →  (Settings) →  (Main Settings) → [Beep] → desired mode → ●

	Shutter	Turns on the shutter sound when you press the shutter button.
	On	Turns on the beep/shutter sound when you press the control button/shutter button.
	Off	Turns off the beep/shutter sound.



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## Panel Brightness

The brightness of the LCD screen is automatically adjusted to the surrounding lighting conditions. You can set the brightness of the LCD screen manually or select a setting that is suitable for outdoors on a sunny day.

1. MENU →  (Settings) →  (Main Settings) → [Panel Brightness] → desired mode → ●

### Notes

- The brighter the screen, the faster the battery pack runs out.
- The screen grows dark if you do not operate the camera while the power is on.
- When [Panel Brightness] is set to [Auto], do not cover the light sensor with your hand or another object.



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## Language Setting

Selects the language to be used in the menu items, warnings and messages.

1. MENU →  (Settings) →  (Main Settings) → [Language Setting] → desired mode → ●

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## Display color

Sets the color of the screen display.

1. MENU →  (Settings) →  (Main Settings) → [Display color] → desired mode → ●

	Black	Sets the background color of the screen.
	White	
	Pink	



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## Initialize

Initializes the settings to the default setting.

Even if you execute this function, the images are retained.

1. MENU →  (Settings) →  (Main Settings) → [Initialize] → [OK] → ●

### Notes

- Be sure not to remove the battery pack while initializing.

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## Function Guide

You can select whether or not the function guide is displayed when you operate the camera.

1. MENU →  (Settings) →  (Main Settings) → [Function Guide] → desired mode → ●

<input checked="" type="checkbox"/>	On	Sets whether to display the function guide.
<input type="checkbox"/>	Off	

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## Video Out

Sets the video signal output according to the TV color system of the connected video equipment. The TV color systems differ depending on the country and region.

To view images on a TV screen, check the TV color system of the country or region of use. [\[Details\]](#)

1. MENU →  (Settings) →  (Main Settings) → [Video Out] → desired mode → ●

NTSC	Sets the video output signal to NTSC mode (e.g., for the USA, Japan).
PAL	Sets the video output signal to PAL mode (e.g., for Europe, China).




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## USB Connect Setting

Sets how to make a USB connection when connecting the camera to a computer, etc.

1. MENU →  (Settings) →  (Main Settings) → [USB Connect Setting] → desired mode → 

	Mass Storage	Establishes a Mass Storage connection between the camera and a computer or other USB device.
	PTP/MTP	When you connect the camera to a computer, the AutoPlay Wizard appears, and the still images in the recording folder on the camera are imported to the computer. (with Windows 7, Windows 8, Windows Vista, Windows XP, Mac OS X)

### Notes

- When [USB Connect Setting] is set to [PTP/MTP], you cannot export movies to a computer. To export movies to a computer, set [USB Connect Setting] to [Mass Storage].

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## USB Power Supply

Sets whether to use the USB power supply function when the camera is connected to a computer or USB device using the dedicated USB cable (supplied).

1. MENU →  (Settings) →  (Main Settings) → [USB Power Supply] → desired mode →



<input checked="" type="checkbox"/>	On	Uses [USB Power Supply] function when a USB connection is established.
<input type="checkbox"/>	Off	Does not use [USB Power Supply] function when a USB connection is established.

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## LUN Setting

Sets USB connection mode when connecting the camera to a computer, etc.

1. MENU →  (Settings) →  (Main Settings) → [LUN Setting] → desired mode → ●

	Multi	Images both on the memory card and in the internal memory are displayed. Select this setting when you connect the camera to a computer.
	Single	When the memory card is inserted into the camera, the images on the memory card are displayed; when it is not inserted, the images in the internal memory are displayed. Select this setting in cases where the images of both the memory card and the internal memory are not displayed when the camera is connected to a device other than a computer.

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## Power Save

Sets the length of time until the screen goes dark and the time until the camera turns off.  
If you do not operate the camera for a certain period of time while the power is on using the battery pack, the screen goes dark and the camera later turns off automatically to prevent wearing down the battery pack (Auto power-off function).

1. MENU →  (Settings) →  (Main Settings) → [Power Save] → desired mode → ●

	Max	Saves battery power better than when set to [Standard]. If the camera is not operated for a certain period of time, the power turns off automatically. In shooting mode, the screen automatically goes dark before the power turns off.
	Standard	If the camera is not operated for a certain period of time, the power turns off automatically. In shooting mode, the screen automatically goes dark before the power turns off. It takes longer before the power turns off than when set to [Max].
	Off	Does not use the Auto power-off function.

### Notes

- The camera does not turn off automatically in the following situations:
  - During slideshow
  - During playing back movies

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## Format

Formats the memory card or the internal memory.

When you use a memory card with this camera for the first time, it is recommended to format the card using the camera for stable performance of the memory card before shooting. Note that formatting permanently erases all data on the memory card, and is unrecoverable. Save precious data on a computer, etc.

1. MENU →  (Settings) →  (Memory Card Tool) or  (Internal Memory Tool) → [Format] → [OK] → 

### Notes

- Note that formatting permanently erases all data including even protected images.

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## Create REC.Folder

Creates a folder in a memory card for recording images.

Images are recorded in the newly created folder until you create another folder or select another recording folder.

1. MENU →  (Settings) →  (Memory Card Tool) → [Create REC.Folder] → [OK] → ●

### On folders

After a new folder is created, you can change the storage destination folder. [\[Details\]](#)

### Notes

- This item is not displayed when the internal memory is used to record images.
- When you insert a memory card that was used with other equipment into the camera and shoot images, a new folder may be automatically created.
- Up to 9,999 images can be stored in one folder. When the folder capacity is exceeded, a new folder is automatically created.



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## Change REC.Folder

Changes the folder in the memory card that is currently used for recording images.

1. MENU →  (Settings) →  (Memory Card Tool) → [Change REC.Folder]
2. Select a folder with ◀ / ▶ on the control button.
3. [OK] → ●

### Notes



- This item is not displayed when the internal memory is used to record images.
- You cannot select the “100” folder as a recording folder.
- You cannot move recorded images to another folder.

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## Delete REC.Folder

Deletes a folder for recording images in a memory card.

1. MENU →  (Settings) →  (Memory Card Tool) → [Delete REC.Folder]
2. Select a folder with ◀ / ▶ on the control button.
3. [OK] → ●

### Notes

- This item is not displayed when the internal memory is used to record images.
- If you delete the folder set as the recording folder using [Delete REC.Folder], the folder that has the largest folder number is selected as the next recording folder.
- If a folder contains protected images, images other than protected images are deleted and the folder will remain.
- If a folder contains files that cannot be played back by the camera, you cannot delete a folder.



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## Copy

Copies all images in the internal memory to a memory card.

1. Insert a memory card with sufficient free capacity into the camera.
2. MENU →  (Settings) →  (Memory Card Tool) → [Copy] → [OK] → ●

### Notes




- Make sure there is sufficient battery power. Otherwise, the battery power may run out when you attempt to copy image files, causing the copy to fail and possibly corrupt the data.
- Images cannot be copied individually.
- The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the memory card after copying, then format the internal memory ([Format] in [Internal Memory Tool]).
- A new folder is created on the memory card and all the data will be copied to it. You cannot choose a specific folder and copy images to it.


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## File Number

Selects the method used to assign file numbers to images.

1. MENU →  (Settings) →  (Memory Card Tool) → [File Number] → desired mode → 

	Series	Assigns numbers to files in sequence even if the recording folder or the memory card is changed. (When the replaced memory card contains a file with a number higher than the last assigned number, a number one higher than the largest number is assigned.)
	Reset	Starts from 0001 each time the folder is changed. (When the recording folder contains a file, a number one higher than the largest number is assigned.)


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## Area Setting


Adjusts the time to the local time of a selected area.

1. MENU →  (Settings) →  (Clock Settings) → [Area Setting] → desired setting → 





	Home	You use the camera in your area. When the currently set area differs from your home area, you must make the Area Setting.
	Destination	You use the camera set to the time at your destination. Set the destination area.

## Changing Area Setting

Setting a frequently visited destination lets you easily adjust the time when you visit that destination.

1. Select the area part for [Destination], then press .



2. Press  /  on the control button to select the desired area, then select Summer Time using  / .









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## Date & Time Setting

Sets the date and time again.

1. MENU →  (Settings) →  (Clock Settings) → [Date & Time Setting] → desired setting → 
2. Set the numeric value and desired setting with  /  /  /  on the control button.
3. [OK] → 

Date & Time Format	You can select the date and time display format.
Summer Time	You can select Summer Time [On]/[Off].
Date & Time	You can set the date and time.

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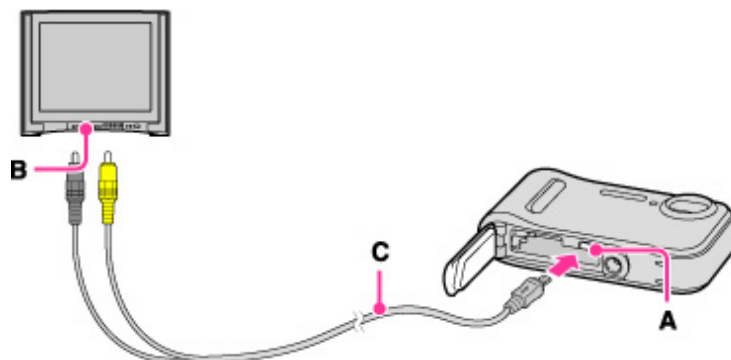
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## Viewing an image on a Standard Definition (SD) TV

You can view images recorded on the camera in standard picture quality by connecting the camera to a Standard Definition (SD) TV. Refer also to the operating instructions supplied with the TV.

1. Turn off both the camera and the TV.
2. Connect the USB / A/V OUT terminal (A) and the audio/video input jacks on the TV (B) using the dedicated A/V cable VMC-15CSR1 (sold separately) (C).



3. Turn on the TV and set the input.
4. Press ON/OFF (Power) button, then set the camera to playback mode.  
Images shot with the camera appear on the TV. Select the desired image with the control button.

### Notes

- When using the camera abroad, it may be necessary to switch [Video Out]. [\[Details\]](#)

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## Recommended computer environment

The following computer environment is recommended when using the software “PlayMemories Home” (Windows) and when importing images via a USB connection.

### Windows

OS (pre-installed)	Microsoft Windows XP* <sup>1</sup> SP3/Windows Vista* <sup>2</sup> SP2/Windows 7 SP1/Windows 8
CPU	Intel Pentium III 800 MHz or faster
Memory	Windows XP: 512 MB or more (1 GB or more is recommended.) Windows Vista/Windows 7/Windows 8: 1 GB or more
Hard Disk (Disk space required for installation)	Approximately 500 MB
Display	1,024×768 dots or more

\*<sup>1</sup> 64-bit editions and Starter (Edition) are not supported.

\*<sup>2</sup> Starter (Edition) is not supported.

### Mac

OS (pre-installed)	USB Connection: Mac OS X v10.5 to v10.8
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### Notes

- Operation is not assured in an environment based on an upgrade of the operating systems described above or in a multi-boot environment.
- If you connect two or more USB devices to a single computer at the same time, some devices, including the camera, may not operate, depending on the types of USB devices you are using.
- Connecting the camera using a USB interface that is compatible with Hi-Speed USB (USB 2.0) allows advanced transfer (high speed transfer), as the camera is compatible with Hi-Speed USB (USB 2.0).
- When your computer resumes activity from suspend or sleep mode, communication between the camera and your computer may not recover at the same time.

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## “PlayMemories Home” (Windows)

Below are examples of the functions available when you use “PlayMemories Home.”

- “PlayMemories Home” allows you to import images shot with the camera to a computer for display. Make a USB connection between the camera and your computer, and click [Import].
- You can display images stored on a computer by shooting date in a calendar display.
- You can save and print images with the date.
- You can correct (Red Eye Correction, etc.) still images, and change the shooting date and time.
- You can upload images to a network service. (An Internet connection environment is required.)
- For other details, see [?](#) (PlayMemories Home Help Guide).

### Notes

- Mac does not support “PlayMemories Home.” Use the application bundled with the Mac to play back images.

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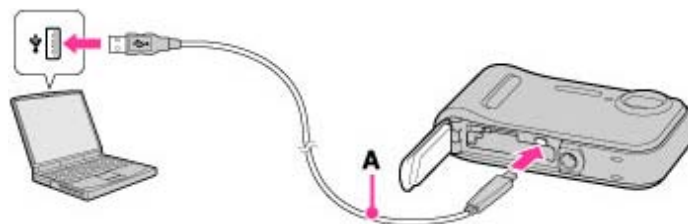
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## Installing “PlayMemories Home” (Windows)

### ▼ Starting “PlayMemories Home” (Windows)

### ▼ Accessing to “PlayMemories Home Help Guide” (Windows)



1. Using the Internet browser on your computer, go to the following URL, then click [Install] → [Run].  
[www.sony.net/pm](http://www.sony.net/pm)
2. Follow the instructions on the screen to complete the installation.
  - When the message to connect the camera to a computer is displayed, connect the camera and computer using the dedicated USB cable (supplied) (A).




### Notes

- Log on as Administrator.
- It may be necessary to restart your computer. When the restart confirmation message appears, restart the computer following the instructions on the screen.
- DirectX may be installed depending on your computer's system environment.
- Mac does not support “PlayMemories Home.” Use the application bundled with the Mac to play back images.
- If “PlayMemories Home” has already been installed on your computer, connect the camera with the computer and register your camera with “PlayMemories Home.” The available functions activate.
- If the software “PMB (Picture Motion Browser)”, supplied with models released before 2011, has already been installed on your computer, “PlayMemories Home” will overwrite it and will be installed. Although some “PlayMemories Home” functions differ from those of “PMB”, use “PlayMemories Home.”

## Starting “PlayMemories Home” (Windows)

1. Double-click  (PlayMemories Home) on the desktop.
  - To start “PlayMemories Home” from the Start menu, click [Start] → [All Programs] →  (PlayMemories Home).
  - For Windows 8, select [PlayMemories Home] icon on the Start screen.

## Accessing to “PlayMemories Home Help Guide” (Windows)

1. Double-click  (PlayMemories Home Help Guide) on the desktop.
  - To start “PlayMemories Home Help Guide” from the Start menu, click [Start] → [All Programs] → [PlayMemories Home] → [PlayMemories Home Help Guide].
  - For Windows 8, select [PlayMemories Home Help Guide] from [Help] menu of “PlayMemories Home.”



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## Software for Mac

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For details on software for Macs, access the following URL:

<http://www.sony.co.jp/imsoft/Mac/>

### Notes

- The available software varies depending on the area.

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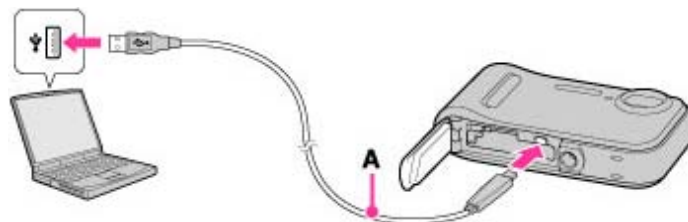
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## Connecting the camera to the computer

1. Set the camera to playback mode.
2. Connect the camera to your computer using a dedicated USB cable (supplied) (A).



- When connecting the camera to a computer using the dedicated USB cable, power feeding from the computer starts if [USB Power Supply] is set to [On]. ([On] is the default setting.)

### Related Topic

[USB Connect Setting](#)

[USB Power Supply](#)

[LUN Setting](#)

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## Importing images to a computer

“PlayMemories Home” allows you to easily import images.

For details on “PlayMemories Home” functions, see the “PlayMemories Home Help Guide”.



### Importing images to a Windows computer without using “PlayMemories Home”

When the AutoPlay Wizard appears after making a USB connection between the camera and a computer, click [Open folder to view files] → [OK] → [DCIM] → copy the desired images to the computer.

### Importing images to a Mac computer without using “PlayMemories Home”

Connect the camera to your Mac computer. Double-click the newly recognized icon on the desktop → the folder in which the image you want to import is stored. Then drag and drop the image file on to the hard disk icon.

#### Notes

- Press MENU →  (Settings) →  (Main Settings) → [USB Connect Setting] to [Mass Storage].

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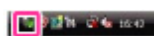
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## Disconnecting the camera from the computer

Perform the procedures from step 1 to 2 below before:

- Disconnecting the cable.
- Removing a memory card.
- Inserting a memory card into the camera after copying images from the internal memory.
- Turning off the camera.

1. Click the disconnect icon () on the tasktray.



- With Windows 7 and Windows 8, click  first, then click .

2. Click [Safely remove USB Mass Storage Device].

### Notes

- Drag and drop the icon of the memory card or the drive icon to the “Trash” icon beforehand when you use a Mac computer, and the camera is disconnected from the computer.
- The disconnect icon may not appear when you use a Windows 7 computer. In this case, you can disconnect the camera from the computer without following the above steps.

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## Printing still images

You can print still images using the following methods.

- Printing directly using a printer which supports your memory card type.  
For details, see the operating instructions supplied with the printer.
- Printing using a computer  
You can import images to a computer using the “PlayMemories Home” software and print the images. You can print images with the date.  
For details, see the “PlayMemories Home Help Guide”.
- Printing at a shop  
You can take a memory card to a photo printing service shop. As long as the shop supports photo printing services conforming to DPOF, you can make a **DPOF** (Print order) mark on images in advance in playback mode so that you do not have to reselect them when you print them out at the shop. Before you take image data to a shop, always copy (back up) your data.

### Notes

- When you print still images shot in [16:9] mode, both edges may be cut off.
- You cannot print panoramic images, depending on the printer.

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## If you have problems

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If you experience trouble with the camera, try the following solutions.

1. Check the items under “Troubleshooting”, then check your camera.
2. Remove the battery pack, wait for about one minute, re-insert the battery pack, then turn on the power.
3. Initialize the settings. [\[Details\]](#)
4. Consult your Sony dealer or local authorized Sony service facility.
  - Be aware that by sending the camera for repair, you give consent that the contents of the internal memory, music files may be checked.
  - Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.  
<http://www.sony.net/>

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## Battery pack and power

Cannot insert the battery pack into the camera.

- Make sure the direction of the battery pack is correct, and insert it until the battery eject lever is locked.

Cannot turn on the camera.

- After inserting the battery pack into the camera, it may take a few moments for the camera to power up.
- Make sure that the battery pack is inserted correctly.
- The battery pack will discharge by itself even if you do not use it. Charge the battery pack before use.
- Check that the battery pack is compatible. [\[Details\]](#)

The power turns off suddenly.

- Depending on the camera and battery temperature, the power may turn off automatically to protect the camera. In this case, a message is displayed on the screen before the power turns off.
- If you do not operate the camera for a certain period of time while the power is on and [Power Save] is set to [Standard] or [Max], the camera turns off automatically to prevent wearing down the battery pack. Turn on the camera again.

The remaining charge indicator is incorrect.

- This is caused when you use the camera in an extremely hot or cold location.
- Battery capacity decreases over time and through repeated use. If decreased usage time between charges becomes significant, it is probably time to replace it with a new one.

The Charge lamp of the camera flashes while charging the battery.

- Check that the battery pack is compatible. [\[Details\]](#)
- The Charge lamp of the camera flashes infrequently when you use a battery pack that has not been used for a long time. In such cases, remove the battery pack from the camera and re-insert it.
- For details, see “[Battery pack](#)”. [\[Details\]](#)

The battery is not charged even if the Charge lamp turns off and charging is finished.

- This happens when you charge the battery pack in an extremely hot or cold location. Charge the battery pack within the proper charging temperature range of between 10°C to 30°C (50°F to 86°F).

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## Shooting still images/movies

Cannot record images.

- If images are recorded on the internal memory even when a memory card is inserted into the camera, make sure that the memory card is fully inserted into the camera.
- Check the free capacity of the internal memory or memory card. If it is full, do one of the following:
  - Delete unnecessary images. [\[Details\]](#) [\[Details\]](#)
  - Change the memory card.
- You cannot record images while charging the flash.
- When recording movies, it is recommended that you use the following memory cards:
  - “Memory Stick Micro” (Mark2) media
  - microSD memory card or microSDHC memory card (Class 4 or faster)



Smile Shutter function does not work.

- No image is shot if a smiling face is not detected. [\[Details\]](#)

Anti-blur function does not work.

- The anti-blur function may not work properly when shooting night scenes.
- Shoot after pressing the shutter button halfway down.

The image is out of focus.

- The subject is too close. When shooting, make sure to position the lens farther away from the subject than the shortest shooting distance in the following situation.
  - In Intelligent Auto mode, Easy Mode: approximately 1 cm (0.39 inches) (W) / 50 cm (1.64 ft) (T) (from the lens)
  - In other shooting modes: approximately 8 cm (0.26 ft) (W) / 50 cm (1.64 ft) (T) (from the lens). Or set to close focus mode and shoot about 1 cm to 20 cm (0.39 inches to 7.87 inches) from the W side distance.
-  (Night Scene) or  (Landscape) mode is selected in Scene Selection when shooting still images.

Zoom does not work.









- You cannot use the optical zoom in the following situations:
  - Shooting in [Sweep Panorama]
  - Shooting in [Magnifying Glass]
- You cannot use the Smart zoom depending on the image size. [\[Details\]](#)
- You cannot use the digital zoom when:
  - The Smile Shutter is working.
  - [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].

Cannot select the Face Detection function.

- You can select Face Detection only when the focus mode is set to [Multi AF] and the metering mode is set to [Multi].
- You cannot select Face Detection when the [Magnifying Glass] mode is activated.

---

The flash does not work.

- You cannot use the flash when:
  - [Cont. Shooting Settings] is set to [Continuous Shooting]. [\[Details\]](#)
  -  (Night Scene) mode or  (High Sensitivity) mode is selected in Scene Selection.
  - Shooting in [Sweep Panorama]
  - Shooting in Movie Mode.
- Set the flash to [On] when Macro mode is set to [Magnifying Glass] or when Scene Selection mode is set to  (Landscape),  (Gourmet),  (Pet),  (Beach),  (Snow) or  (Underwater) mode. [\[Details\]](#)

---

Fuzzy white circular spots appear in images shot using the flash.

- Particles (dust, pollen, etc.) in the air, and the floating object underwater reflected the flash light and appeared in the image. This is not a malfunction. [\[Details\]](#)

---

The close-up shoot function (Macro) does not work.

- When Magnifying Glass mode is selected, the shooting distance is approximately 1 cm to 20 cm (0.39 inches to 7.87 inches).
- [Macro] is set to [Auto] in the following situations:
  - Shooting in [Sweep Panorama]
  - When the Smile Shutter function is activated.
  - In [Easy Mode]
  - When [Self-Timer] is set to [Self-portrait One Person] or [Self-portrait Two People].

---

The date and time are not displayed on the screen.

- While shooting, the date and time are not displayed. They are displayed only during playback.

---

The F value and shutter speed flash when you press and hold the shutter button halfway down.

- The exposure is incorrect. Correct the exposure. [\[Details\]](#)

---

The image colors are not correct.

- Adjust the White Balance. [\[Details\]](#)

---

White or purple streaks appear in bright areas of the subject, or the whole screen of the image becomes reddish.

- This phenomenon is called smearing. This is not a malfunction. Smearing is not recorded on still images, but is recorded as streaks or uneven colors on Sweep Panorama images or movies. ("Bright areas" refers to the sun or electric lights which are much brighter than surroundings.)

---

Noise appears in the image when you view the screen in a dark place.

- The camera is attempting to increase the visibility of the screen by temporarily brightening the image under conditions of low illumination. There is no effect on the recorded image.

---

The eyes of the subject come out red.

- Set [Red Eye Reduction] to [Auto] or [On]. [\[Details\]](#)
- Shoot the subject at a distance closer than the flash range using the flash.
- Light the room and shoot the subject.

---

Dots appear and remain on the screen.

- This is not a malfunction. These dots are not recorded.

---

Cannot shoot images in succession.

- The internal memory or memory card is full. Delete unnecessary images. [\[Details\]](#) [\[Details\]](#)
- The battery level is low. Insert a charged battery pack.

---

The same image is shot several times.

- Set [Cont. Shooting Settings] to [Single Shooting]. [\[Details\]](#)

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## Viewing images

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Cannot play back images.

- Make sure that the memory card is fully inserted into the camera.
- The folder/file name has been changed on your computer.
- No guarantees are made for playing back, on this camera, files containing images which were processed on a computer or images which were shot using other cameras.
- The camera is in USB mode. Disconnect the USB connection. [\[Details\]](#)

The date and time are not displayed.

- The screen display is set to display images only. Change the setting using MENU → [Display Setting] to display information. [\[Details\]](#)

Cannot display images in index mode.

- The camera is set to Easy Mode. Cancel Easy Mode.

The image does not appear on the TV.

- Check [Video Out] to see if the video output signal of the camera is set to the color system of your TV. [\[Details\]](#)
- Check whether the connection is correct. [\[Details\]](#)

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## Computers

Your computer does not recognize the camera.

- Set [USB Connect Setting] to [Mass Storage]. [\[Details\]](#)
- Use the dedicated USB cable (supplied).
- Disconnect the dedicated USB cable from both the computer and the camera, and connect it again firmly.
- Disconnect all equipment other than the camera, the keyboard and the mouse from the USB connectors of your computer.
- Connect the camera directly to your computer without passing through a USB hub or other device.
- Set [USB Power Supply] to [Off]. Your computer may recognize the camera.

Cannot import images.

- Connect the camera and your computer correctly making a USB connection. [\[Details\]](#)
- When you shoot images with a memory card formatted by a computer, you may not be able to import the images to a computer. Shoot using a memory card formatted by the camera. [\[Details\]](#)

After making a USB connection, "PlayMemories Home" does not start automatically.

- Make the USB connection after the computer is turned on.

Cannot play back images on your computer.

- If you are using "PlayMemories Home", refer to "PlayMemories Home Help Guide". [\[Details\]](#)
- Consult the computer or software manufacturer.

The image and sound are interrupted by noise when you view a movie on a computer.

- You are playing back the movie directly from the internal memory or the memory card. Import the movie to your computer using "PlayMemories Home" and play it back. [\[Details\]](#)

Images once exported to a computer cannot be viewed on the camera.

- Export them to a folder recognized by the camera, such as "101MSDCF".

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## Memory card

Cannot insert a memory card.

- Insert the memory card in the correct direction.

You have formatted a memory card by mistake.

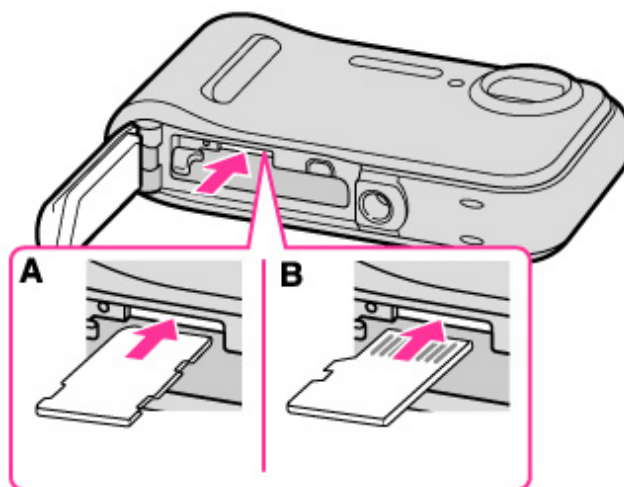
- All the data on the memory card is deleted by formatting. You cannot restore it.

Images are recorded on the internal memory even when a memory card is inserted into the camera.

- Make sure that the memory card is fully inserted into the camera.

The memory card cannot be recognized.

- Insert the memory card in the correct direction.



A: "Memory Stick Micro" media

B: microSD memory card

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## Internal memory

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Cannot play back or record images using the internal memory.

- There is a memory card inserted in the camera. Remove it.

Cannot copy the data stored in the internal memory to a memory card.

- The memory card is full. Copy to a memory card with sufficient capacity.

Cannot copy the data on the memory card or the computer to the internal memory.

- This feature is not available.

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## Printing

Images are printed with both edges cut off.

- Depending on your printer, all the edges of the image may be cut off. Especially when you print an image shot with the image size set to [16:9], the lateral end of the image may be cut off.
- When printing images using your printer, cancel the trimming or borderless settings. Consult the printer manufacturer as to whether the printer provides these functions or not.
- When having images printed at a digital print shop, ask the shop whether they can print the images without cutting off both edges.

Cannot print images with the date.

- Select MENU →  (Settings) →  (Shooting Settings) → [Write Date] → [On] to insert a date on the image. Make sure that once the date is inserted, you cannot remove that date from the image.
- Using “PlayMemories Home”, you can insert the date on still images that have been recorded without a date. [\[Details\]](#)

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## Others

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The lens gets fogged.

- Moisture condensation has occurred. Remove the battery and memory card and leave the battery/memory card cover open and then leave the camera in a dry place until the moisture has evaporated.


The camera becomes warm when you use it for a long time.

- This is not a malfunction.

The Clock Set screen appears when you turn on the camera.

- Set the date and time again. [\[Details\]](#)

The date or time is incorrect.

- The Area Setting is set to a different location than your current location. Change the setting by MENU →  (Settings) → [Clock Settings] → [Area Setting]. [\[Details\]](#)

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## Messages

If the following messages appear, follow the instructions.



- The battery level is low. Charge the battery pack immediately. Depending on the conditions of use or the type of battery pack, the indicator may flash even though there are still 5 minutes to 10 minutes of remaining battery time left.

System error. Turn on the device again.

- Turn the power off and then on again.

Camera overheating Allow it to cool

- The camera temperature has risen. The power may turn off automatically, or you may be unable to record movies. Leave the camera in a cool location until the temperature goes down.

Internal memory error

- Turn the power off and then on again.

Reinsert the memory card.

- The inserted memory card cannot be used in the camera. [\[Details\]](#)
- The terminal section of the memory card is dirty.
- The memory card is damaged.

Incompatible type of memory card.

- The inserted memory card cannot be used in the camera. [\[Details\]](#)

Buffer overflow. Writing to the media was not completed in time.

- If you use a memory card that has been recorded and erased repeatedly, or that was formatted on a different camera, the data writing speed may be too slow. First back up any data on the card to a computer, and then reformat the card before using it. [\[Details\]](#)
- The writing speed of the memory card you are using is not sufficient for movie recordings. Use a "Memory Stick Micro" (Mark2) media, a microSD memory card or microSDHC memory card (Class 4 or faster).

Cannot recognize the internal memory. Format and use again.

Cannot recognize this memory card. Format and use again.

- Format the media again. [\[Details\]](#)

---

This is a read- only memory card.

- The camera cannot record or delete images on this memory card.

---

No images

- No images that can be played back have been recorded in the internal memory.
- No images that can be played back have been recorded in this folder of the memory card.

---

No still images

- The selected folder does not contain a file that can be played back in a slideshow.

---

File found which was not recognized

- You tried to delete a folder containing a file that cannot be played on this camera. Delete the file on a computer and then delete the folder.

---

Folder error. Cannot record to the selected folder. Please select a different folder.

- A folder with the same first three digit number already exists on the memory card (for example: 123MSDCF and 123ABCDE). Select another folder [\[Details\]](#), or create a new folder [\[Details\]](#).

---

Cannot create more folders

- A folder with a name beginning with “999” exists on the memory card. You cannot create any folders if this is the case.

---

Folder protected

- You tried to delete a folder that is protected as read-only on a computer.

---

Cannot display file

- An error occurred while the image was playing back.  
No guarantees are made for playing back, on this camera, files containing images which were processed on a computer or images which were shot using other cameras.

---

Read only folder

- You have selected a folder that cannot be set as a recording folder on the camera. Select another folder. [\[Details\]](#)

---

File protected

- Release the protection. [\[Details\]](#)

---

Image size over limit

- You are playing back an image with size that cannot be played back on the camera.

---

Unable to detect face for retouch

- You may not be able to retouch the image depending on the image.



(Vibration warning indicator)

- Camera shake may occur due to insufficient light. Use the flash, turn on the anti-blur function, or mount the camera on a tripod to secure the camera.

---

1280x720 is not supported with this memory card.

- For recording movies, it is recommended that you use a memory card of 1 GB or larger.

---

Maximum number of images already selected.

- Up to 100 files can be selected when using [Multiple Images].
- You can add **DPOF** (Print order) marks to up to 999 files.

---

Operation cannot be executed in unsupported files.

- Processing and other editing functions of the camera cannot be performed on image files that have been processed using a computer or images that were recorded with other cameras.

---

Recording function unavailable due to high internal temperature.

- The camera temperature has risen. You cannot record images until the temperature has gone down.

---

Recording has stopped due to increased camera temperature.

- Recording has stopped due to a rise in temperature while recording a movie. Please wait until the temperature goes down.

---

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## Situations this camera has difficulty handling

The camera cannot take full advantage of some features under certain circumstances.

When shooting under the following conditions, either recompose the shot or change the shooting mode, then shoot the images again.

### Low light conditions

- [Shooting panoramic images](#)
- [Tracking focus](#)

### Overly bright conditions

- [Tracking focus](#)

### Varying levels of brightness

- [Tracking focus](#)

### Flickering lights

- [Shooting panoramic images](#)

### Subjects too close to the camera

- [Shooting panoramic images](#)

### Subjects too far from the camera

- [Shooting panoramic images](#)

### Large moving subjects or subjects that move too quickly

- [Shooting panoramic images](#)
- [Tracking focus](#)

### Subjects too small or too large

- [Tracking focus](#)

### Background the same color as the subject

- [Tracking focus](#)

### Scenes with little contrast, such as the sky or a sandy beach

- [Shooting panoramic images](#)

### Scenes changing constantly, such as a waterfall

- [Shooting panoramic images](#)

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## Precautions

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- ▼ [Do not use/store the camera in the following places](#)
- ▼ [On carrying](#)
- ▼ [On operating temperatures](#)
- ▼ [On moisture condensation](#)
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- ▼ [Notes on the screen and lens](#)

### Internal memory and memory card back up

Do not turn off the camera, remove the battery pack, or remove the memory card while the access lamp is lit. Otherwise, the internal memory data or the memory card may be damaged. Be sure to make a backup copy to protect your data.

### Do not use/store the camera in the following places

- In an extremely hot, cold or humid place  
In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Storing under direct sunlight or near a heater  
The camera body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to rocking vibration
- Near strongly magnetic place

### On carrying

- Do not sit down in a chair or other place with the camera in the back pocket of your trousers or skirt, as this may cause a malfunction or damage the camera.

### On operating temperatures

- Your camera is designed for use under the temperatures between  $-10^{\circ}\text{C}$  and  $+40^{\circ}\text{C}$  ( $14^{\circ}\text{F}$  and  $104^{\circ}\text{F}$ ). Shooting in extremely cold or hot places that exceed this range is not recommended.

### On moisture condensation

- If the camera is brought directly from a cold to a warm location, moisture may condense inside or outside the camera. This moisture condensation may cause a malfunction of the camera.
- If moisture condensation occurs, remove the battery and memory card and leave the battery/memory card cover open and then leave the camera in a dry place until the moisture has evaporated. Note that if you attempt to shoot with moisture remaining inside the lens, you will be unable to record clear images.

### On image data compatibility

- The camera conforms with DCF (Design rule for Camera File system) universal standards established by JEITA (Japan Electronics and Information Technology Industries Association).

- Sony does not guarantee that the camera will play back images recorded or edited with other equipment, or that other equipment will play back images recorded with the camera.

## ■ Notes on the screen and lens

- The screen is manufactured using extremely high-precision technology so over 99.99% of the pixels are operational for effective use. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the screen. These dots are a normal result of the manufacturing process and do not affect the recording.
- Exposing the screen or the lens to direct sunlight for long periods may cause malfunctions. Be careful when placing the camera near a window or outdoors.
- Do not press against the screen. The screen may be discolored and that may cause a malfunction.
- Images may trail across on the screen in a cold location. This is not a malfunction.

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## Backup of various settings, date and time

---

If you eject the battery pack from the camera and leave the camera for about half a day, or if you have not used the camera for a long period with the battery pack inserted in the camera, the date and time or various settings will be initialized.

In that case, insert the charged battery pack and reset the settings.

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## Battery pack

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- ▼ [Effective use of the battery pack](#)
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- ▼ [How to store the battery pack](#)
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### On charging the battery pack

- Charge the battery pack (supplied) before using the camera for the first time.
- You can charge the battery pack even if it is not completely discharged. In addition, even if the battery pack is not fully charged, you can use the partially charged capacity of the battery pack as is.
- We recommend charging the battery pack at an ambient temperature of between 10°C to 30°C (50°F to 86°F). The battery pack may not be effectively charged in temperatures outside this range.

### Effective use of the battery pack

- Battery performance decreases in low temperature surroundings. So in cold places, the operational time of the battery pack is shorter. We recommend the following to ensure longer battery pack use:
  - Put the battery pack in a pocket close to your body to warm it up, and insert it in the camera immediately before you start shooting.
 (If there are any metal objects such as keys in your pocket, be aware of short-circuits.)
- The battery pack will run out quickly if you use the flash or zoom frequently.
- We recommend having spare battery packs handy for two times or three times the expected shooting time, and making trial shots before taking the actual shots.
- Do not expose the battery pack to water. The battery pack is not water-resistant.
- Do not leave the battery pack in extremely hot places, such as in a car or under direct sunlight.
- You may not be able to turn on the camera or the battery pack may not be effectively charged if the terminal section of the battery is dirty. In this case, wipe any dust off lightly using a soft cloth or a cotton swab to clean the battery.

### Remaining battery charge

- A remaining charge indicator appears on the screen.



A: High

B: Low

- It takes about one minute until the correct remaining charge indicator appears.
- If the power goes off even though the remaining battery is sufficient, charge the battery after fully used. The correct battery level will be displayed.
- The remaining charge indicator may not be displayed correctly in the following situations:
  - Using the camera in an extremely hot or cold location
  - Leaving the camera with a fully charged battery
  - Using a heavily used battery

- The remaining charge indicator may not be correct under certain circumstances.
- When [Power Save] is set to [Standard] or [Max], if you do not operate the camera for a certain period of time while the power is on, the screen becomes dark, then the camera turns off automatically. (Auto power-off function)

## How to store the battery pack

- Fully discharge the battery pack before storing and store the camera in a cool, dry place. To maintain the battery pack's function, charge the battery pack and then fully discharge it in the camera at least once a year while storing.
- To use the battery pack up, leave the camera in slideshow playback mode until the power goes off.
- To prevent staining the terminal, short-circuiting, etc., be sure to use a plastic bag, etc. to keep away from metal materials when carrying or storing.

## On battery life

- The battery life is limited. Battery capacity decreases over time and through repeated use. If the available time of the battery is shortened significantly, it is probably time to replace it with a new one.
- The battery life varies according to how it is stored and the operating conditions and environment in which each battery pack is used.

## Compatible battery pack

- The NP-BN (supplied) or NP-BN1 (sold separately) can be used with this model.

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## Notes on charging the battery pack

- The supplied AC Adaptor is dedicated to this camera. Do not connect with other electronic devices. Doing so may cause a malfunction. Also, make sure to use a genuine Sony AC Adaptor.
- If the Charge lamp of the camera flashes during charging, remove the battery pack being charged, and then insert the same battery pack into the camera securely again. If the Charge lamp flashes again, this may indicate a battery error or that a battery pack other than the specified type has been inserted. Check that the battery pack is the specified type. If the battery pack is the specified type, remove the battery pack, replace it with a new or different one and check that the battery is charged correctly. If the battery is charged correctly, a battery error may have occurred.
- If the Charge lamp flashes even if the AC Adaptor is connected to the camera and the wall outlet (wall socket), this indicates that charging has stopped temporarily and is on standby. Charging stops and enters standby status automatically when the temperature is outside of the recommended operating temperature. When the temperature returns to the appropriate range, charging resumes and the Charge lamp lights up again. We recommend charging the battery pack at an ambient temperature of between 10°C to 30°C (50°F to 86°F).
- Using the supplied AC Adaptor, you can charge the battery pack inserted in the camera. In addition, power supply via AC Adaptor in playback mode is also available. However, in shooting mode, power supply via AC Adaptor is not available. You need AC Adaptor AC-UD10 (sold separately) or AC-UD11\* (sold separately) to supply power from a wall outlet (wall socket) while shooting.

\* The AC Adaptor AC-UD11 (sold separately) may not be available in some countries/regions.

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## Memory card

### ▼ Memory card

### ▼ “Memory Stick” media

## Memory card

Memory card	Representation in User Guide
Memory Stick Micro (M2)	“Memory Stick Micro” media
Memory Stick Micro (Mark2)	
microSD memory card	microSD memory card
microSDHC memory card	

- This camera should be operated at between –10°C and +40°C (14°F and 104°F), but according to the type of memory card, the operating temperature may vary. For details, see the operating instructions supplied with the memory card.
- The following products have been tested and proven to operate with your camera.
  - “Memory Stick Micro” media: up to 16 GB
  - microSD memory card: up to 32 GB
- When recording movies, it is recommended that you use the following memory cards:
  - **MEMORY STICK MICRO** (Mark2) (“Memory Stick Micro” (Mark2) media)
  - microSD memory card (Class 4 or faster)

### Notes

- To ensure stable operation of the memory card, we recommend that you use this camera to format any memory card being used with this camera for the first time. Note that formatting will erase all data recorded on the memory card. This data cannot be restored. Be sure to back up any important data to a PC or other storage location.
- If you repeatedly record/delete images, fragmentation of data may occur on the memory card. Movies may not be able to be saved or recorded. In such a case, save your images to a PC or other storage location, then [Format].
- A memory card formatted with a computer is not guaranteed to operate with the camera.
- Data read/write speeds differ depending on the combination of the memory card and the equipment used.
- Data may be corrupted in the following cases:
  - When the memory card is removed or the camera is turned off during a read or write operations
  - When the memory card is used in locations subject to static electricity or electrical noise
- We recommend backing up important data.
- Do not attach a label on the memory card itself nor on a memory card adaptor.
- Do not touch the terminal section of the memory card with your hand or a metal object.
- Do not strike, bend or drop the memory card.
- Do not disassemble or modify the memory card.
- Do not expose the memory card to water.
- Do not leave the memory card within the reach of small children. They might accidentally swallow it.
- Insert a memory card that fits the memory card slot size. Otherwise, it will cause a malfunction.
- Do not use or store the memory card under the following conditions:
  - High temperature locations such as the hot interior of a car parked in direct sunlight

- Locations exposed to direct sunlight
- Humid locations or locations with corrosive substances present

## ■ “Memory Stick” media

The types of “Memory Stick” media that can be used with the camera are listed in the table below. However, proper operation cannot be guaranteed for all “Memory Stick” media functions.

“Memory Stick” media type	Recording/Playback
Memory Stick Micro (M2)	✓*1
Memory Stick Micro (Mark2)	✓*1*2

\*1 “Memory Stick” media is equipped with MagicGate functions. MagicGate is copyright protection technology that uses encryption technology. Data recording/playback that requires MagicGate functions cannot be performed with the camera.

\*2 [1280x720] size movies can be recorded.

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## On cleaning

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### Cleaning the lens and flash

Wipe the lens and flash with a soft cloth to remove fingerprints, dust, etc.

### Cleaning the flash

Clean the flash surface before use. The heat of the flash emission may cause dirt on the flash surface to start smoking or burning. Wipe the flash surface with a soft cloth to remove dirt or dust, etc.

### Cleaning the camera surface

Clean the camera surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. To prevent damage to the finish or casing:

- Do not expose the camera to chemical products such as thinner, benzine, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.
- Do not touch the camera with any of the above on your hand.
- Do not leave the camera in contact with rubber or vinyl for a long time.

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## Number of still images

The number of still images may vary depending on the shooting conditions and the memory card.  
(Units: Images)

Size	Internal memory	Memory card formatted with this camera				
	Approx. 43 MB	2 GB	4 GB	8 GB	16 GB	32 GB
16M	6	280	570	1150	2300	4600
10M	10	440	880	1750	3500	7000
5M	16	700	1400	2800	5600	11000
4M	29	1280	2500	5000	10000	20000
VGA	262	11000	22000	45000	90000	180000
16:9(12M)	8	360	720	1450	2900	5800
16:9(2M)	54	2300	4700	9300	18000	37000

### Notes

- When the number of remaining shootable images is greater than 99,999, the ">99999" indicator appears.
- When an image shot with other cameras is played back on this camera, the image may not appear in the actual image size.

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## Recordable time of movies

The table below shows the approximate maximum recording times. These are the total times for all movie files. The recordable time may vary depending on the shooting conditions and the memory card. (h (hour), m (minute), s (second))

Quality/Size	Internal memory	Memory card formatted with this camera				
	Approx. 43 MB	2 GB	4 GB	8 GB	16 GB	32 GB
1280x720	—	8 m	16 m	35 m	1 h 10 m	2 h 20 m
VGA	25 s	25 m	50 m	1 h 40 m	3 h 30 m	7 h
QVGA	1 m	1 h 15 m	2 h 30 m	5 h	10 h	20 h

Continuous shooting is possible for approximately 29 minutes (limited by product specifications). For [1280x720] size movies, continuous shooting is possible for approximately 10 minutes (limited by 2 GB file size).

### Notes

- You cannot record movies to the internal memory when the movie image size is [1280x720].

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## On TV color systems

To view movies shot using this camera on a television, the camera and television must use the same color television system. Check the color TV system for the country or region where you are using the camera.

### NTSC system

Bahama Islands, Bolivia, Canada, Central America, Chile, Colombia, Ecuador, Jamaica, Japan, Korea, Mexico, Peru, Surinam, Taiwan, the Philippines, the U.S.A., Venezuela, etc.

### PAL system

Australia, Austria, Belgium, China, Croatia, Czech Republic, Denmark, Finland, Germany, Holland, Hong Kong, Hungary, Indonesia, Italy, Kuwait, Malaysia, New Zealand, Norway, Poland, Portugal, Romania, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Thailand, Turkey, United Kingdom, Viet Nam, etc.

### PAL-M system

Brazil

### PAL-N system

Argentina, Paraguay, Uruguay

### SECAM system


Bulgaria, France, Greece, Guiana, Iran, Iraq, Monaco, Russia, Ukraine, etc.

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